Draft Chemicals (Management and Safety) Rules, 20xx

In exercise of the powers conferred by Sections 3, 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), and in supersession of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, except things done or omitted to be done before such supersession, the Central Government hereby makes the following Rules relating to the management and safety of chemicals, namely:

1. Short Title and Commencement

- (1) These Rules may be called the Chemicals (Management and Safety) Rules, 20xx.
- (2) These Rules shall come into force on the date of their publication in the Official Gazette.

Chapter I Definitions, Objectives and Scope

2. Definitions

(1) In these Rules, unless the context otherwise requires

- (a)"Act" means the Environment (Protection) Act, 1986 (29 of 1986) as amended from time to time;
- (b)"Article" means any object whose function is determined by its shape, surface or design to a greater degree than its chemical composition;
- (c)"Authorised Representative" means a natural or juristic person in India who is authorised by a foreign Manufacturer under Rule 6(2);
- (d) "Chemical Accident" means an accident involving a sudden or unintended occurrence while handling any Hazardous Chemical, resulting in exposure (continuous, intermittent or repeated) to the Hazardous Chemical causing death or injury to any person or damage to any property, but does not include an accident by reason only of war or radioactivity;
- (e)"**Competent Person**" means a person recognized by the Chief Controller to be a competent person, or a person who holds a certificate of competency for the job in respect of which competency is required from an institution recognized by the Chief Controller in this behalf;
- (f) "Concerned Authority" means an authority specified in column 2 of Schedule III;
- (g)"**Division**" means the Chemical Regulatory Division of the Petroleum and Explosives Safety Organisation, whose functions are set out under Rule 5;
- (h)"**Downstream User**" means any natural or juristic person in India, other than a Manufacturer or an Importer, who Uses a Substance in the course of his industrial or professional activities;

Explanatory Note: Downstream User does not include end-use consumer.

(i) **"Existing Industrial Activity"** means an Industrial Activity which is not a New Industrial Activity;

- (j) **"Existing Substance"** means a Substance or an Intermediate which is already being Manufactured, Imported, supplied or Used in India or has already been Placed in Indian Territory prior to the expiry of the Initial Notification Period;
- (k)"Exposure Scenario" means the set of conditions, including operational conditions and risk management measures, that describe how a Substance is Manufactured or Used during its life-cycle, and how the Manufacturer or Importer controls, or recommends Downstream Users to control, exposures to humans and the environment. These exposure scenarios may cover one specific process or Use or several processes or Uses as appropriate;
- (l) "Hazardous Chemicals" means
 - i. Any Substance which satisfies any of the criteria laid down in Part I of Schedule X or any Substance listed in Part II of Schedule X;
 - ii. Any Substance listed in column 2 of Schedule XI;
 - iii. Any Substance listed in column 2 of Schedule XII;
- (m) **"Intermediate"** means a Substance that is Manufactured for, consumed in, or Used for, chemical processing in order to be transformed into another Substance;
- (n)"**Import**" with its grammatical variations and cognate expressions, means bringing a Substance into India from a place outside India;
- (o)"Importer" means any natural or juristic person who Imports a Substance;
- (p)"Industrial Activity" means:
 - i. an operation or process carried out in an industrial installation referred to in Schedule XIII involving or likely to involve one or more Hazardous Chemical and includes on-site storage or on-site transport, which is associated with that operation or process, as the case may be; or
 - ii. isolated storage; or
 - iii. pipeline;
- (q)"**Industrial Pocket**" means an industrial zone notified either by a State Government or the 'Industrial Development Corporation' of a State Government;
- (r) "Initial Notification Period" means the period prescribed under Rule 8(1);
- (s) "Isolated Storage" means storage of a Hazardous Chemical, other than storage associated with an installation on the same site specified in Schedule XIII where that storage, including storage in a warehouse, involves at least the quantities of that chemical set out in column 3 of the Schedule XI;
- (t) "Major Chemical Accident" means a Chemical Accident involving loss of life inside or outside an installation, ten or more injuries inside and/or one or more injuries outside, release of toxic chemicals, explosion, fire spillage of Hazardous Chemicals resulting in on-site or off-site emergencies or damage to equipment leading to stoppage of process or adverse effects on the environment;
- (u)"**Major Accident Hazard Installations**" means sites where an Industrial Activity (including handling and Isolated Storage, and transport through carrier or pipeline) involving Hazardous Chemicals in quantities equal to, or in excess of, the threshold specified in column 3 of Schedules XI and XII respectively is carried out;
- (v)"**Manufacture**" means production or extraction of a Substance;

- (w) "Manufacturer" means any natural or juristic person who Manufactures a Substance;
- (x)"Mixture" means a mixture or solution composed of two or more Substances;
- (y)"**New Industrial Activity**" means an Industrial Activity which commences after the date of coming into force of these Rules;
- (z)"**New Substance**" means all Substances and Intermediates that are Placed in Indian Territory after the expiry of the Initial Notification Period, and are therefore not Existing Substances;
- (aa) **"Notification"** with its grammatical variations and cognate expressions, means a notification made under Rule 8;
- (bb) "Notifier" means any person who has an obligation to notify under Rule 8;
- (cc) "**Off-site Emergency**" means an emergency that takes place in a Major Accident Hazard installation where the impact of such emergency extends beyond the premises of such installation;
- (dd) **"On-site Emergency"** means an emergency that takes place in a Major Accident Hazard installation where the effects are confined to the premises involving only the people working inside the installation, and to deal with such eventualities is the responsibility of the occupier and is mandatory;
- (ee) **"Packaging"** means one or more receptacles and any other components or materials necessary for the receptacles to perform containment and other safety functions with respect to Substances;
- (ff) **"Pipeline"** means a pipe (together with any apparatus and works associated therewith) or system of pipes (together with any apparatus and work associated therewith) for the conveyance of a Hazardous Chemical other than a flammable gas as set out in column 2 of Part II of Schedule XII, where pipeline also includes inter-state pipelines;
- (gg) "**Placing in Indian Territory**" with its grammatical variations and cognate expressions, means supplying or making available a Substance or an Intermediate, whether in return for payment or free of charge, to a third party in the territory of India, and includes Manufacturing, packing, selling, offering for sale, or otherwise distributing, Substances or Intermediates. Import shall be deemed to be Placing in Indian Territory;
- (hh) "Priority Substance" means

i.any Substance which falls under any of the following Hazard Classifications of the eighth revision of the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS Rev. 8):

- a. Carcinogenicity and/or Germ Cell Mutagenicity and/or Reproductive Toxicity and categorised as Category 1 or 2, or
- b. Specific Target Organ Toxicity (Repeated Exposure or Single Exposure) Category 1 or 2; or
- ii.any Substance which fulfils the criteria of Persistent, Bio-accumulative and Toxic or very Persistent or very Bio-accumulative, as set out in Schedule I of these Rules; or

iii. any Substance listed in Schedule II;

- (ii) "Registrant" means a Notifier with an obligation to Register a Substance;
- (jj) **"Registration"** with its grammatical variations and cognate expressions, means a registration made under Rule 10;
- (kk) **"Restriction"** means a prohibition on, or conditions relating to, the Manufacture, Use or Placing in Indian Territory of a Substance;
- (11) **"Risk Assessment Committee"** means the committee constituted under Rule 4(4);
- (mm) **"Same Substance"** means all Substances containing the same main constituent at a concentration of more than 80% (w/w) and not containing any other constituent listed in Schedule II at concentration of 10% (w/w) or more. Substances containing more than one main constituents with concentrations between 10% (w/w) and 80% (w/w) may be considered as Same Substance if they have the same composition. For Substances of Unknown or Variable Composition, Complex reaction products or Biological materials (UVCB) the sameness will be decided by the Division based on the information provided in 4a, 4b and 4c of Annexure V.
- (nn) "Schedule" means a Schedule appended to these Rules;
- (oo) "Scientific Research and Development" means any scientific experimentation, analysis or chemical research on, involving or Using a Substance, carried out under controlled conditions with no potential exposure towards workers and environment, provided that the volume of the Substance used is less than 100 kilogram per annum;
- (pp) "Scientific Committee" means the committee constituted under Rule 4(3);
- (qq) "Site" means any location where Hazardous Chemicals are Manufactured, processed, stored, handled, Used or disposed of and includes the whole of an area under the control of an Occupier and includes a pier, jetty or similar structure whether floating or not;
- (rr) **"Steering Committee"** means the committee constituted under Rule 4(1) and with such composition as set out in Rule 4(2);
- (ss) **"Substance**" means a chemical element and its compounds in their natural state or obtained by any Manufacturing process, including any additive necessary to preserve its stability and any impurity deriving from the process used, but excluding any solvent which may be separated without affecting the stability of the Substance or changing its composition. Substance shall include Substances in Articles and Mixtures. Provided that, for the purposes of Chapter III of these Rules, the following shall not be included in the definition of Substance:
 - (i) Radioactive Substances;
 - (ii) Substances under customs supervision, not being placed in Indian Territory;
 - (iii)Substances stored in customs free zones with aim of re-exporting;
 - (iv)Wastes, as defined in Hazardous Waste Management Rules 2016;
 - (v) Substances used for the purposes of defence;

- (vi) Substances used as food or feeding stuff for human beings or animals, including human or animal nutrition;
- (vii) Substances set out in Schedule IV.

Explanatory Note: Where a Substance Used for a specific purpose is exempted, only such quantities of the Substances as are being Used for the said purpose, are exempted from the application of these Rules. Any Manufacturer, Importer or Downstream User Using any quantities of the same Substance for any other purpose will not be exempt from the application of these Rules.

- (tt) **"Technical Dossier"** means a document providing such information as detailed in Schedule VII and to be submitted under Rule 10(1);
- (uu) "Use" means any processing, formulation, consumption, storage, keeping, treatment, filling into containers, transfer from one container to another, mixing, production of Substance, Intermediate, Mixture and Article, or any other utilisation.
- (2) Anything not hereby defined shall have such meaning as assigned to it under the Act.

3. Objectives and scope

- (1) These Rules provide for Notification, Registration and Restrictions, or prohibitions, as well as labelling and packaging requirements related to the Use of Substances, Substances in Mixtures, Substances in Articles and Intermediates Placed or intended to be Placed in Indian Territory.
- (2) These Rules also provide for safety procedures for the Manufacture, handling and Import of Hazardous Chemicals and preparedness and management of Chemical Accidents related to Hazardous Chemicals, as identified under these Rules. The objective of these Rules is to ensure a high level of protection to human health and the environment.
- (3) These Rules apply to all Substances, Substances in Mixtures and Intermediates that are Manufactured, Imported, Placed or intended to be Placed in Indian Territory.
- (4) These Rules do not apply to Substances in Articles except as otherwise set out in Rule 10 and Rule 12 hereinafter.

Chapter II National Chemical Authority

4. Structure, duties and powers of National Chemical Authority

(1) The National Chemical Authority, consisting of the Steering Committee, the Scientific Committee, Risk Assessment Committee and the Chemical Regulatory Division is hereby set up in accordance with these Rules for the purpose of implementation of these Rules.

- (2) The Steering Committee shall oversee technical and administrative matters arising out of these Rules, and carry out functions that may be assigned to it under these Rules including:
 - (a) Oversee the activities of the Division;
 - (b) Approve an annual budget for the functioning of the Division, prepare internal procedure for its day to day operations, and oversee the day to day operations of the Division; and
 - (c) Prepare and publish an annual report regarding the activities of the Division.
- (3) The Steering Committee shall meet at least once every 90 days, and shall consist of the following:

(a)	Secretary, Department of Chemicals and Petro-Chemicals	Ex officio
		Chairperson
(b)	Member Secretary, National Disaster Management	Ex officio Member
	Authority	
(c)	Joint Secretary (Chemicals), Department of Chemicals	Ex officio Member
	and Petro-Chemicals	
(d)	Joint Secretary (Explosives), Department for Promotion of	Ex officio Member
	Industry and Internal Trade	
(e)	Joint Secretary (HSM Division), Ministry of	Ex officio Member
	Environment, Forest and Climate Change	
(f)	Joint Secretary (Plant Protection), Department of	Ex officio Member
	Agriculture, Cooperation and Farmers Welfare	
(g)	Joint Secretary (FSSAI Division), Ministry of Health and	Ex officio Member
	Family Welfare	
(h)	Joint Secretary (Trade Policy Division), Department of	Ex officio Member
	Commerce	
(i)	Joint Secretary, Department of Pharmaceuticals	Ex officio Member
(j)	Joint Secretary, National Authority for Chemical	Ex officio Member
	Weapons Convention	
(k)	Drugs Controller General of India	Ex officio Member
(1)	Chairperson, Central Pollution Control Board	Ex officio Member
(m)	Chairman, Registration Committee under Insecticide Act,	Ex officio Member
	1968	
(n)	CEO, Food Safety and Standards Authority of India	Ex officio Member
(0)	Principal secretary/ Secretary of Industries, from each	Ex officio Member
	State of India.	
(\mathbf{n})	Persons having expertise in chemical management co-	Members
(P)	opted as and when the special need arises	Wiembers
	opted as and when the special need arises	
(q)	Chief Controller of Chemicals, Chemical Regulatory	Member Secretary
	Division, National Chemical Authority	

- (4) The Scientific Committee shall be composed of the following members and shall carry out functions as set out in these Rules:
 - (a) A Chairperson, being the Joint Chief Controller of Chemicals (Chemistry Unit);
 - (b) One expert in chemistry or chemical regulations ;
 - (c) One toxicology expert;
 - (d) One packaging and labeling expert, from the Indian Institute of Packaging, Ministry of Commerce and Industry;
 - (e) One environmental expert ;
 - (f) Two experts in socio-economic analysis, including for instance experts with background in Ecological Economics, Economic Sciences, Social Sciences, etc.;
 - (g) One expert each in analytical chemistry, environmental impact studies, packaging & labeling from industry associations with equivalent experience and
 - (h) Any senior staff member of the Chemistry Unit nominated by the Head as the Member Secretary;
- (5) The Risk Assessment Committee shall be composed of the following members and shall carry out the functions set out in these Rules:
 - (a) A Chairperson, being the Joint Chief Controller of Chemicals (Toxicology Unit);
 - (b) One expert in chemistry or chemical regulations;
 - (c) One medical toxicology expert;
 - (d) One veterinary toxicology expert;
 - (e) One phyto-toxicology expert ;
 - (f) One marine toxicology expert ;
 - (g) One environmental expert ;
 - (h) One expert each in environmental impact studies, medical toxicology, veterinary toxicology and environment toxicology nominated industry associations with equivalent experience; and
 - (i) Any senior staff member of the Toxicology unit nominated by the Head as the Member Secretary;
- (6) All expert members of the Scientific Committee and the Risk Assessment Committee shall be part-time members and shall be nominated by the Steering Committee. Expert members shall have a minimum of 20 years of experience as scientists in the relevant areas in any institutes of Indian Council of Medical Research (ICMR), Council of Scientific & Industrial Research (CSIR), Indian Council of Agricultural Research (ICAR), National Institute of Pharmaceutical Education and Research (NIPER) or in any GLP certified lab. Serving or retired professors/ asst. professors with a minimum of 20 years of experience in the relevant areas in any Central University or any institute of national repute may also be nominated. All expert members shall be below 65 years of age on the date of nomination and shall, unless their seats become vacant earlier by resignation, death or otherwise, hold office for 3 years from the date of their appointment, and shall be eligible for re-appointment to either committee only once.

- (7) No Person may serve as a member of the Scientific Committee and the Risk Assessment Committee simultaneously.
- (8) All part-time expert members shall be paid sitting fees as per Schedule XIX and travel allowance from their place of residence at the same rate as applicable to a Director in Government of India.

5. Chemical Regulatory Division

- (1) The Chemical Regulatory Division shall discharge the duties of secretariat of the National Chemical Authority and shall carry out all functions as required under these Rules. The Chief Controller of Chemicals, Joint Chief Controllers of Chemicals and Deputy Chief Controllers of Chemicals shall be of the rank of Joint Secretary, Director and Under Secretary to the Government of India respectively and shall be appointed by the Central Government on deputation basis from the officers of equivalent rank or a rank below in existing technical cadres of the government or statutory/ autonomous bodies, created for the purpose of dealing with chemicals and related matters. All these officers shall draw the same salary as in their parent organizations and also shall draw a deputation allowance of 25% of basic pay.
- (2) The Chief Controller of Chemicals, being the Head of the Chemical Regulatory Division of the National Chemical Authority shall:
 - (a) Manage and coordinate the day to day functioning of the Division, including administrative tasks;
 - (b) Coordinate between the Scientific Committee, the Risk Assessment Committee and the Units of the Division; and
 - (c) Prepare a statement of revenue and expenditure, as well as implement the annual budget.
- (3) Each of the following Units of the Division shall be headed by a Joint Chief Controller of Chemicals, assisted by three (3) Deputy Chief Controllers of Chemicals:
 - (a) Chemistry Unit;
 - (b) Toxicology Unit;
 - (c) Chemical Safety and Accidents Unit;
 - (d) Packaging and Labelling Unit;
 - (e) Techno-legal Unit;
 - (f) Priority Substance Unit;
 - (g) Information Technology Unit; and
 - (h) Socio-Economic Unit.
- (4) A Director or Deputy Secretary level officer shall head the Administrative and Finance Unit of the Division and assisted by one Under Secretary.
- (5) The Division shall, *inter alia*:
 - (a) Provide technical, scientific and administrative support to the Scientific Committee and Risk Assessment Committee;
 - (b) Administer procedures relating to Notification and Registration;
 - (c) Prepare and maintain a database of information;
 - (d) Disseminate information to the public;

- (e) Ensure the enforcement of these Rules;
- (f) Evaluate Notifications and Registrations, and make recommendations, in concurrence with the Scientific Committee and the Risk Assessment Committee, on the accuracy of the data submitted, and to identify Substances which require Registration, authorization under Restricted Use and prohibition from Use; and
- (g) Ensure decisions taken on Substances are shared with the Notifier or Registrant.

Chapter III Notification, Registration and Restrictions on Use

6. Placing in Indian Territory

- (1) No person shall Place in Indian Territory any Substance, Mixture or Article unless they comply with these Rules.
- (2) A Foreign entity who wishes to Place a Substance, Mixture or Article in Indian Territory may appoint an Authorised Representative, who shall be an Indian national or an entity registered in India with sufficient background in practical handling of Substances and with minimum average net worth of ten times the average value of Substances dealt by him during the last calendar/financial year. Such Authorised Representative shall be responsible to act on behalf of the foreign entity to ensure compliance with these Rules and shall be liable for the discharge of all obligations under these Rules.

7. Duty of Downstream Users

- (1) A Downstream User shall not procure Substances, Mixtures, Intermediates or Articles in which Substances or Intermediates have not been Notified or Registered, as applicable, in accordance with these Rules.
- (2) Every Downstream User whose Use of a Notified Substance is not included in its Notification, shall notify the Division of such Use and submit a Safety Data Sheet in relation to such Use in accordance with Rule 12.

8. Notification

- (1) The Initial Notification Period shall commence on the date that is one year from the date of coming into force of these Rules. The Initial Notification Period shall terminate on the date which is 180 days from the date of the commencement of the Initial Notification Period.
- (2) All Manufacturers or Importers (or Authorised Representatives acting on behalf of foreign entities) shall Notify the Division of all Existing Substances that they have Placed in Indian Territory in quantities greater than 1 tonne per annum in accordance with Rule 9, within the Initial Notification Period.
- (3) A Manufacturer or Importer (or Authorised Representative in the case of a Foreign Manufacturer) shall Notify the Division of any New Substance that they intend to Place in Indian Territory, after the expiry of the Initial Notification Period.

- (4) All New Substances have to be Notified at least 60 days prior to the date on which they are Placed in Indian Territory in quantities more than 1 tonne per annum. Any person intending to Place an Existing Substance in quantities greater than 1 tonne per annum in Indian Territory after the Initial Notification Period shall also Notify the Division in the same manner.
- (5) The fees for Notification shall be as per Schedule XIX.
- (6) All Manufacturers and Importers who have registered a Substance under any other Indian Act, Rule or Regulation currently in force, shall also Notify the Division in accordance with Rule 8 except sub-rule 12 and 13. Such Substances are exempted from Registration, Chemical Safety Assessment and Evaluation and Restriction and Rules 10, 13 and 16 will not apply in such cases.
- (7) All Manufacturers and Importers who have Notified a Substance under this Rule shall update the information submitted annually, no later than 60 days after the end of each calendar year. Such update shall mandatorily be accompanied with fees as set out in Schedule XIX, if applicable and include information regarding the actual quantities of Substances Placed in Indian Territory in the previous calendar year. Additionally, any changes or additions to the information submitted at the time of Notification must be updated.
- (8) Upon receipt of a Notification, the Chemistry Unit of the Division shall conduct a preliminary check to ensure that the Notification is complete, and the prescribed fee has been paid. If the Notification is incomplete, the Division may require the Notifier to submit additional information. The Notifier must comply with such request within a maximum period of 30 days.
- (9) In case the Notifier is unable to furnish such information within 30 days, he may apply to the Division for an extension of a maximum of 30 days. The Division may, if it deems fit, grant such an extension.
- (10) If the Notification passes such preliminary check, the Techno-Legal Unit shall take a decision on an application for confidentiality, if any.
- (11) Once all required information regarding a Notification has been submitted to the satisfaction of the Chemistry Unit, the Notification shall be deemed accepted and the Substance shall be entered into the Register of Notified Substances. A notification number shall be assigned to the Notifier for such Substance and notification certificate in the form set out in Schedule XVIII shall be granted to the Notifier.
- (12) Upon Notification of a Substance, the Priority Substance Unit shall check with the Division and Notifier for availability of data regarding the Substance to find out whether it falls within the definition of Priority Substance. All data submitted by the Notifier to any foreign regulator in other jurisdictions for the purpose of registration of the same Substance shall be acceptable to the extent possible. The Priority Substance Unit shall evaluate all Notified Substances, in concurrence with the Scientific Committee and the Risk Assessment Committee, and identify Substances that fall within the definition of Priority Substance. Scientific Weight of Evidence data, if made available by the Notifier, shall also be taken into account before making final determination about any Substance. Based on such evaluation, or based on non-

availability of data, the Priority Substance Unit may recommend to the the Steering Committee for addition to or deletion from Schedule II.

(13) The Steering Committee shall hold public consultations within 90 days of receipt of recommendations, prior to forwarding such recommendations to the Central Government.

9. Information for Notification

- (1) A Notification by a Manufacturer or Importer or Authorised Representative shall include information relating to the Notifier, identity of the Substance, its Uses, the quantity of the Substance that is or will be Placed in Indian Territory, current classification and such other information as set out in Schedule V.
- (2) All Notifiers are also required to submit a Safety Data Sheet as required under Rule 12.

10. Registration

- (1) All Manufacturers, Importers and Authorised Representatives (in the case of Foreign Manufacturers) that have Placed or are intending to Place in Indian Territory a Substance listed in Schedule II in quantities greater than 1 tonne per annum must Register such Substance within one and half years from the date of inclusion of the Substance in Schedule II.
- (2) A requirement for Registration of Substances that are placed in Indian Territory in quantities lower than 1 tonne per annum, may also be published in Schedule II, based on the recommendations of the Scientific Committee and the Division.
- (3) If Substances set out in Schedule II are present in Articles such that:
 - (a) Such Substances are intended to be or likely to be released from the Article under normal or foreseeable conditions of use, and
 - (b) Such Substance is present in the Article in quantities totalling over 1 tonne per producer or importer per year; then

the Manufacturer or Importer of such Article shall be required to Register such Substance in accordance with these Rules.

- (4) Registration shall be done by submitting a Technical Dossier, as set out in Schedule VII.
- (5) Upon the receipt of a Registration, the Toxicology Unit shall conduct a preliminary check to ensure that the Registration is complete, and that the prescribed fees have been paid. If the Registration is incomplete, the Division may require the Registrant to submit additional information for completing the Dossier within 60 days. For Substances already registered with any foreign regulator in other jurisdictions, the data submitted on the same Substance to that regulator for the purpose of registration shall be acceptable to the extent possible.
- (6) The Techno-legal Unit shall take a decision on any applications regarding confidentiality.
- (7) Once all required information regarding a Registration has been submitted to the satisfaction of the Toxicology Unit, the Registration shall be deemed accepted, a

registration number shall be assigned to the Registrant of such Substance and a registration certificate in the form set out in Schedule XVIII shall also be granted to the Registrant.

- (8) All Manufacturers, Importers or Authorised Representatives who have Registered a Substance shall update the Technical Dossier and other data submitted with the Registration (if any) to reflect any change or revision in the information submitted that affects hazard and risk management, not later than 60 days after the Manufacturer, Importer or Authorised Representatives has become aware of such change or revision.
- (9) The fees for Registration shall be as per Schedule XIX.
- (10) Any Manufacturer, Importer or Authorised Representative who has a duty to Register a Substance, may come to an arrangement with other Manufacturers, Importers or Authorised Representatives of the Same Substance and jointly Register such Substance:

Provided however that such joint Registration shall be in compliance with all such obligations applicable to an individual Registration under these Rules.

11. Intermediates

- (1) Manufacturers, Importers or Authorised Representatives that transport or store or will transport or store Intermediates within the territory of India shall comply with Notification and Registration requirements as set out in this Rule. Intermediates produced in-situ which are not isolated but consumed in the same process are exempted from Notification and Registration.
- (2) All Intermediates, which are also Substances included in Schedule II, and are stored in a facility (either for consumption *in-situ* or otherwise) shall be Registered in accordance with Rule 10 of these Rules.
- (3) Transported Intermediates that are Substances included in Schedule II, shall be Registered as under:
 - (a) registration of Intermediates transported or to be transported in quantities up to 1000 tonne per annum shall only contain details regarding the physical and chemical properties in the Technical Dossier, and
 - (b) registration of Intermediates transported or to be transported in quantities greater than 1000 tonne per annum shall contain all information as required in the Technical Dossier and the Chemical Safety Report.
- (4) Intermediates not included in Schedule II, are required to be Notified, but are exempted from Registration requirements under these Rules.

12. Safety Data Sheet

(1) All Notifiers of a Substance or an Intermediate listed in Schedule II or a Hazardous Chemical are required to maintain and submit an up-to-date Safety Data Sheet in the format set out in Schedule IX and share such Safety Data Sheet with the Downstream User of the Substance.

- (2) All importers or manufacturers of an Article, where a Substance or an Intermediate listed in Schedule II is present in such Article above a concentration of 1.0 % weight by weight (w/w), shall maintain and submit an up-to-date Safety Data Sheet in the format set out in Schedule IX and share such Safety Data Sheet with the User of the Article.
- (3) Any Registrant who is required under Rule 13 to carry out a Chemical Safety Assessment for a Substance included in Schedule II shall ensure that the information in the Safety Data Sheet is consistent with the information in the Chemical Safety Report.
- (4) All Downstream Users of a Substance shall recommend additions to the Safety Data Sheet, if any, on the basis of their Use of the Substance.
- (5) All Notifiers and Downstream Users shall update the Safety Data Sheet when new information on hazards or which may affect risk management becomes available.

13. Chemical Safety Assessment

- (1) Manufacturers or Importers (or Authorised Representatives in the case of foreign Manufacturers) that Place Substances listed in Schedule II in Indian Territory in quantities greater than 10 tonnes per annum shall perform a Chemical Safety Assessment and submit a Chemical Safety Report in the format prescribed in Schedule VIII at the time of Notification or Registration.
- (2) Manufacturers or Importers (or Authorised Representatives in the case of foreign Manufacturers) that Place Substances listed in Schedule II in Indian Territory in quantities less than or equal to 10 tonnes but more than 1 tonne per annum shall submit an Exposure Scenario at the time of Registration.

14. Information Dissemination

- (1) The interactive digital platform set up by the Division for the operation of these Rules shall include, subject to Rule 17, an information portal to disseminate, *inter alia*, the following information to the general public:
 - (a) information relating to Notified and Registered Substances, their Uses and classification;
 - (b) Information relating to deadlines;
 - (c) Standard operating procedures and technical guidance on Notification, Registration, Chemical Safety Assessment, and Evaluation; and
 - (d) Templates for providing information for Notification and Registration.
- (2) The Portal shall also, subject to Rule 17:
 - (a) contain Notices and other communication from the Division to Notifiers and Registrants, subject to the confidentiality obligations in Rule 17; and
 - (b) Have provisions for e-filing of appeals.

15. Dossier Evaluation

(1) The Chemistry and Toxicology Units of the Division shall evaluate the Technical Dossier within one year of its submission.

- (2) If the Chemistry and Toxicology Units find that the Technical Dossier has incomplete information, they shall require the Registrant to furnish the same, including any additional test data within 120 days of being informed.
- (3) In case the Registrant is unable to furnish such information within the prescribed period, he may apply to the Division for an extension of a maximum of 90 days. The Division may, if it deems fit, grant such extension.
- (4) If the Registrant is unable to supply the required information within the deadline, the Registration of the Substance shall be suspended. If the Registration of the Substance remains suspended, the Registrant shall not Place the Substance in Indian Territory.
- (5) Upon submission of the pending information to the satisfaction of Division, the suspension under sub-rule (4) shall be withdrawn.

16. Evaluation and Restriction

- (1) The Priority Substance Unit of the Division shall evaluate the available data to assess if the Registered Substance poses an unacceptable risk to human safety or the environment during various uses in India. Risk-based approaches including hazard identification, hazard characterization, exposure assessment, and risk characterization (probability of occurrence of known and potential adverse effects) shall be adopted for such overall risk assessment to the extent possible.
- (2) If the Priority Substance Unit is of the opinion that the risk posed by the use of the Registered Substance is substantial, it may propose to Restrict the use of such Substance or Prohibit such Substance. Such proposal shall be submitted to the Risk Assessment Committee for its concurrence based on socio-economic impact assessment and availability of suitable alternatives. The Priority Substance Unit may, based on its evaluation, also recommend to the Risk Assessment Committee that an entry be added to or deleted from Schedules X, XI or XII.
- (3) Upon carrying out changes, if any, suggested by the Risk Assessment Committee, a Substance may be recommended for Restrictions or Prohibition to the Steering Committee. The Steering Committee shall hold public consultations within 90 days of receipt of the recommendations, prior to forwarding such recommendations to the Central Government.
- (4) Once a Restriction on a Priority Substance has been notified, a request for authorization for use of a Restricted Substance may be submitted by a Manufacturer, Importer or Authorized Representative to the Division along with the fees as provided in Schedule XIX. Such request shall be analysed by the Priority Substance Unit, to determine if such Restricted Substance is essential for the operation of an industrial process or for Scientific Research and Development and a recommendation on such authorization shall be submitted to the Risk Assessment Committee. With the concurrence of the Risk Assessment Committee, such authorization may be granted.
- (5) The Division may grant permission for authorised Use of Substances restricted under sub-rule (4) for an initial period of no more than 4 years. The Division may further extend such permission for a maximum additional period of 4 years on re-application by the Registrant.

(6) These Rules are without prejudice to any restrictions, prohibitions or regulations on the use of any Substances provided under any other enactment, for the time being in force.

17. Confidentiality

- (1) A Notifier or Registrant may request that trade secrets, proprietary business information and other intellectual property related data and information shared by the Notifier or the Registrant be kept confidential and not be disseminated publicly.
- (2) Foreign Manufacturers of any Substance, Intermediate, Mixture or Article may submit a request for confidentiality through their Authorised Representatives.
- (3) A request for confidentiality should be accompanied by fees as provided in Schedule XIX and a statement of reasons clearly identifying:
 - (a) what information is to be kept confidential; and
 - (b) the reasons why such information should be kept confidential.
- (4) The request for confidentiality will be submitted to the Division and it shall make the final determination of whether such request for confidentiality may be granted. The Division may require the Notifier or the Registrant to furnish documents or information to determine the validity of the request for confidentiality if it deems appropriate.
- (5) The information or data with respect to which the request for confidentiality has been filed will be kept confidential and not disseminated publicly until such time as the Techno-legal Unit makes a final decision on the validity of such request.
- (6) If a request for confidentiality has been granted with respect to certain information, then the Members of the Division, Scientific Committee, Risk Assessment Committee and the Steering Committee who have access to such information shall keep such information confidential even after the expiry of their term.
- (7) A request for confidentiality may not be submitted for the classification of Substances and 'endpoint' summaries submitted during Notification or Registration.
- (8) Where for the purpose of evaluating Notifications and Registrations, the Division discloses that information to some other person, such person shall not use or disclose such information.

18. Methods of Testing

(1) When tests are required to be carried out by Registrants for the purpose of Registration, the Registrants shall comply with the testing methodology/ protocol laid down in the Organization for Economic Co-operation and Development (OECD) guidelines for the testing of Chemicals. If the guidelines provide different options for any test, any of the options may be adopted with concurrence of the Risk Assessment Committee. The tests must be carried out in NABL accredited or GLP certified laboratories.

(2) To avoid repeated testing, the existing test data must be considered prior to requiring a new testing. All efforts should be made to derive the required data using alternative methods recommended by OECD. The Registrant must propose a testing

strategy and get it approved by the Division before conducting any new test. Tests on vertebrate animals shall be undertaken only as a last resort.

19. Appeals

- (1) Any person aggrieved by a decision of the Division may prefer an appeal to the Steering Committee.
- (2) An appeal may only be filed in writing within 90 days of being notified of the decision of the Division. The appeal must set out the grounds.
- (3) The Steering Committee must decide the appeal within 60 days from the date on which the appeal is filed.
- (4) The fee for filing an appeal is as per Schedule XIX.

Chapter IV Safety and Accident Preparedness

20. Duties of Authorities

The Concerned Authority shall, subject to other provisions of these rules, perform the duties specified in column 3 of Schedule III of these Rules.

21. Transport of Hazardous Chemicals

- (1) When an Occupier or any person wishes to transport a Hazardous Chemical, he shall ensure that the vehicle used for transport is properly labelled in accordance with the eighth revision of the UN-GHS of classification, and that technology enabled tracking and communication systems as prescribed by the Division are used.
- (2) The transport of Hazardous Chemicals shall be in accordance with the provisions of these rules and the rules made by the Central Government under the Motor Vehicles Act, 1988 and the guidelines issued by the Division from time to time in this regard.
- (3) In case of transportation of Hazardous Chemicals to another State, the Occupier or the person shall give prior intimation to the State Pollution Control Board of the State to which such Hazardous Chemicals are being transported.
- (4) In case of transit of Hazardous Chemicals through a State other than the States of origin and destination, the Occupier or the person shall give prior intimation to the concerned State Pollution Control Board of the States of transit.

22. Submission of Information relating to Industrial Activity and Site Safety Report

(1) An Occupier who has control of an Industrial Activity in which a Hazardous Chemical is handled and such Industrial Activity is not covered by sub-rule (2) below or Rule 24, shall provide evidence to the Concerned Authority to show that he has (a) identified the Chemical Accident hazards; and

(b) taken adequate steps to (i) prevent Chemical Accidents and to limit their consequences in terms of impact on persons and the environment; and (ii) provide persons working on the site information, training and equipment including antidotes necessary to ensure their safety. This evidence shall be provided within 30 days of commencement of the activity or within 30 days of coming into force of these Rules, whichever is later. The occupier shall obtain the acknowledgement from the Concerned Authority within 60 days of submission, failing which he shall not continue the activity.

(2) The following Industrial Activities will have to be notified by the Occupier and approved in accordance with this rule

(a) an Industrial Activity in which there is involved a quantity of Hazardous Chemical as listed in column 2 of Schedule XII which is equal to or more than the threshold quantity specified in the entry for that Hazardous Chemical in column 3 of Schedule XII;

(b) isolated storage in which there is involved a quantity of a Hazardous Chemical listed in column 2 of Schedule XI which is equal to or more than the threshold quantity specified in the entry for that Hazardous Chemical in column 3 of Schedule XI.

- (3) An Occupier shall not undertake any New Industrial Activity unless he has been granted an approval from the Concerned Authority for undertaking such activity and has submitted a report for notification in the format set out in Part I and Site Safety Report in the format set out in Part II of Schedule XIV, at least 90 days before commencing that activity or before such shorter time as the Concerned Authority may agree.
- (4) The Concerned Authority shall,
 - (a) within 90 days from the date of receipt of the report, approve the report submitted or on consideration of the report if Concerned Authority is of the opinion that there is or has been a contravention of the provisions of the Act or the Rules, issue an improvement notice to the Occupier; and
 - (b) forward copies of all such reports and approvals, as well as any improvement notices to the Division, immediately.
- (5) The Chemical Safety and Accidents Unit of the Division shall, from time to time, coordinate and ensure that all reports, approvals and improvement notices submitted to the Concerned Authorities under these Rules are shared with the Division.
- (6) The Division may provide recommendations to the Concerned Authority in relation to any report, approval or improvement notice after reviewing the report forwarded to it.

23. Transitional Provisions

Where-

- (a) at the date of coming into force of these Rules, an Occupier is in control of an Existing Industrial Activity which is required to be Notified and approved under Rule 22(2); or
- (b) within 90 days after the date of coming into force of these Rules, an Occupier commences any New Industrial Activity which is required to be Notified and approved under Rule 22(2),

he may continue or commence such Industrial Activity:

Provided that he submits to the Concerned Authority, a report for notification as per Part I and a Site Safety Report as per Part II of Schedule XIV, within 120 days of the date of coming into force of these Rules.

24. Safety Audit Reports

- (1) The Occupier of a Major Accident Hazard Installation involving quantities of Hazardous Chemicals exceeding the threshold quantity of column 4 of Schedules XI or XII shall carry out an independent safety audit of the Industrial Activity by an accredited expert agency empanelled by the Steering Committee, at least once every 2 years. The Occupier shall submit at least one Safety Audit Report within 180 days from the date of coming into force of these Rules.
- (2) The Occupier shall send a copy of the auditor's report along with his comments to the Concerned Authority within 30 days after the completion of such audit. The Concerned Authority will forward a copy of such auditor's report to the Division.
- (3) If an Occupier is conducting a safety audit during the period mentioned above for a Site under any other law for the time being in force, the requirement to conduct a safety audit shall be deemed to be fulfilled and the Occupier shall submit the Safety Audit Report of such audit to the Concerned Authority.
- (4) The Concerned Authority may, if he deems fit, issue an improvement notice within 45 days of the submission of the Safety Audit Report submitted under this Rule.
- (5) Steering Committee may direct safety audit of any industry, at random, or on receipt of any specific complaint.

25. Revision and updation of Reports submitted under Rules 22 and 24

- (1) When an Occupier makes any modification to an Industrial Activity which could materially affect the particulars in the reports submitted as per Part I of Schedule XIV, or the Site Safety Report or the Safety Audit Report, he shall make a fresh report taking into account these modifications and submit such revised report to the Concerned Authority, no later than 30 days from the making of these modifications.
- (2) Where the Occupier has made a Site Safety Report as provided in Part II of Schedule XIV in accordance with Rule 22 and sub-rule (1) of this Rule and such Industrial Activity is continuing, the Occupier shall within three years of the date of the last such report, make a further report which shall have regard in particular to new

technical knowledge which has affected the particulars in the previous report relating to safely and hazard assessment and shall submit the updated Site Safety Report to the Concerned Authority.

(3) Where an Occupier has sent a Site Safety Report and the Safety Audit Report relating to an industrial activity to the Concerned Authority, such Authority may require the Occupier to provide additional information and the Occupier shall send such additional information within 90 days.

26. Forwarding of Safety Audit Report to the Division

A relevant Concerned Authority shall send a copy of every Safety Audit Report, submitted by an Occupier under Rule 24, to the Division promptly.

27. Import of Priority Substances or Hazardous Chemicals

- (1) Upon completion of the relevant Registration and Notification requirements, an Importer of Substances listed in Schedule II or Hazardous Chemicals in India shall submit to the Concerned Authority, at least 15 days before Importation of such Substance in quantities greater than the lowest of 1 tonne, the quantity specified in column 3 of Schedule XII and column 3 of Schedule XI, information pertaining to-
 - (a) the name and address of the person receiving the consignment in India;
 - (b) the port of entry in India;
 - (c) mode of transport from the exporting country to India;
 - (d) name and the quantity of Priority Substances or Hazardous Chemicals being imported; and
 - (e) all relevant product safety information, including Safety Data Sheet.
- (2) If the Concerned Authority is of an apprehension that the Substance being Imported is likely to cause a Major Chemical Accident, it may direct the Importer to take such safety measures as it may, deem appropriate.
- (3) The Concerned Authority shall ensure that the Importer takes appropriate steps regarding safe handling of Priority Substances or Hazardous Chemicals while off-loading the consignment within the port premises.
- (4) If the Concerned Authority, is of the opinion that the Substance should not be Imported on safety or on environmental considerations, the Concerned Authority may stop such Imports and inform the Chairman, Central Board of Indirect Taxes and Customs or a Competent Person under him to stop such import. The Concerned Authority shall in such a case provide relevant information relating to such stopped Imports to the Division.
- (5) On successful compliance of sub-rules (1) to (3), an acknowledgement containing, inter alia, the name of Importer, name and Notification number (if applicable) of the Priority Substances or Hazardous Chemicals, quantity to be imported, name of the port, date of likely shipment, shall be immediately issued. The Chairman, Central Board of Indirect Taxes and Customs or the Competent Person under him shall not clear any consignment of Priority Substances or Hazardous Chemicals without this acknowledgment.

(6) All persons Importing Priority Substances or Hazardous Chemicals shall maintain records of the Priority Substances or Hazardous Chemicals Imported. The records so maintained shall be open for inspection by the Concerned Authority or any Competent Person. The Importer of the Priority Substances or Hazardous Chemicals of a person working on his behalf shall ensure that transport from port of entry to the ultimate destination is in accordance with the Rule 21.

28. Duties of Chemical Safety and Accidents Unit

(1) The Chemical Safety and Accidents Unit shall:

- (a) Set up a functional control room at such place as it deems fit to coordinate information sharing and communication in response to Chemical Accidents;
- (b) Set up an information networking system with state and district control rooms;
- (c) Publish a list of Major Accident Hazards Installations;
- (d) Publish a list of Major Chemical Accidents;
- (e) Take measures to create awareness amongst the public with a view to prevent Chemical Accidents;
- (f) Provide information on methods and techniques for containment, mitigation and clean-up of Hazardous Chemicals;
- (g) Provide assistance for field monitoring of spills and any release in the environment, and providing guidance at the field level with emergency response mobile vans, protective equipment, trained personnel to deal with accidents involving Hazardous Chemical;
- (h) Assist in predicting dispersion pattern of chemicals involved and creating awareness among public likely to be affected; and
- (i) Compile and publish information on Chemical Accidents.
- (2) The Chemical Accidents Unit shall coordinate with and provide technical support to:
 - (a) the National Executive Committee constituted under the Disaster Management Act, 2005 in dealing with all matters related to chemical disasters and in the management of Major Chemical Accidents;
 - (b) the State Executive Committee constituted under the Disaster Management Act, 2005 in the management of Chemical Accidents at the State or Union Territory level; and
 - (c) the District Disaster Management Authority constituted under the Disaster Management Act, 2005, in the management of Chemical Accidents at the district level.

29. Preparation of On-site Emergency Plan by the Occupier

(1) An Occupier of a Major Hazard Installation shall prepare and submit an up-to-date On-site Emergency Plan to the Concerned Authority detailing as per Part III of Schedule XIV how Major Chemical Accidents will be dealt with on the Site of the Industrial Activity. Such On-site Emergency Plan shall include the name of the person who is responsible for safety on-site and the names of those who are authorised to take action in case of an emergency. The Occupier shall ensure that every person on the site who is affected by the plan is informed of relevant provisions of the On-site Emergency Plan.

- (2) The Occupier shall ensure that the On-site Emergency Plan is updated in case of any modification of the Industrial Activity. The persons concerned and mentioned in subrule (1) shall be informed regarding the updated On-site Emergency Plan.
- (3) The Occupier shall prepare and submit the On-site Emergency Plan required under sub-rule (1),
 - (a) in case of an Existing Industrial Activity, within 90 days of coming into force of these Rules; and
 - (b) in the case of a New Industrial Activity, within 30 days of commencement of the activity.
- (4) The Occupier shall ensure that a mock drill of the On-site Emergency Plan is conducted at least once in every 180 days and submit a detailed report on such mock drill to the Concerned Authority within 7 days of such drill.

30. Preparation of Off-site Emergency Plan

- (1) For each Major Accident Hazard Installation, the Concerned Authorities shall prepare and keep up-to-date an adequate Off-site Emergency Plan, containing particulars specified in Schedule XV and detailing how emergencies relating to a possible Major Chemical Accident on that site will be dealt with. In preparing the Off-site Emergency Plan, the Concerned Authorities shall consult an Occupier, the District Collector and such other persons as it may deem necessary, and get it approved by the District Disaster Management Authority.
- (2) For the purpose of enabling the Concerned authority to prepare the Off-site Emergency Plan, the Occupier shall provide the Concerned Authority with such information relating to the industrial activity under his control as the Concerned Authority may require, including the nature, extent and likely off-site effects of possible Major Chemical Accidents.
- (3) The Concerned authority shall prepare an Off-site Emergency plan
 - (a) in the case of an Existing Industrial Activity, within 90 days of coming into force of these Rules; and
 - (b) in the case of a New Industrial Activity, within 90 days of commencement of the industrial activity.
- (4) The Concerned Authority shall ensure that a mock drill of the Off-site Emergency Plan is conducted at least once in a calendar year.

31. Notification of Chemical Accidents

(1) Where a Chemical Accident (including a Major Chemical Accident for the purpose of this Rule) occurs on-site or off-site, the Occupier shall notify and submit a Chemical Accident report of the accident to the Concerned Authority, as applicable in the

format set out in Schedule XVI. The Occupier shall also notify the Chemical Accidents Unit of the Division.

- (2) This notification requirement is to be complied with within 24 hours of the occurrence of the Chemical Accident and the Chemical Accident report is to be submitted within 72 hours of the accident.
- (3) The Concerned Authority that receives a Chemical Accident report shall undertake a full analysis of the Chemical Accident and submit an Analysis Report within 30 days of the receipt of notice of the Chemical Accident to the Division.
- (4) The Occupier shall submit to the Concerned Authority a report of all steps taken or to be taken to prevent a repetition of the accident within 180 days from the date of the Chemical Accident.
- (5) The Chemical Accidents Unit shall in writing inform the occupier, of any lacunae which in its opinion needs to be rectified to avoid major accidents. The Chemical Accidents Unit of the Division shall compile information regarding all Chemical Accidents that take place in a calendar year and submit a copy of the information to the Steering Committee.
- (6) The Occupier at every Major Accident Hazards Installations in the industrial pockets in a district shall aid, assist and facilitate functioning of the Concerned Authority and the Chemical Accidents Unit of the Division.

32. Information to be given to persons liable to be affected by a Major Chemical Accident

- (1) The Occupier shall take appropriate steps to inform persons outside the site either directly or through Concerned authority who are likely to be in an area which may be affected by a Major Chemical Accident about-
 - (a) the nature of the Major Chemical Accident hazard; and

(b) the safety measures and the Dos and Don'ts which should be adopted in the event of a Major Chemical Accident.

(2) The Occupier shall take the steps required under sub-rule (1) to inform persons about an Industrial Activity, before such activity is commenced, except in the case of an Existing Industrial Activity, in which case the Occupier shall comply with the requirements of sub-rule (1) within 90 days of coming into force of these Rules.

Chapter V Labelling and Packaging

33. Labelling Requirements

- (1) A Manufacturer, Importer or Downstream User shall ensure that all Priority Substances, Hazardous Chemicals and Mixtures containing more than 10% (w/w) of any Priority Substance or Hazardous Chemicals, that they Place in Indian Territory bear labels as per Schedule XVII read with this Rule and are packaged in accordance with Rule 34, before being Placed in the Indian Territory.
- (2) A Manufacturer, Importer or Downstream User shall ensure that all product identifiers, hazard statements and pictograms, signal words, and precautionary statements used in the labels of Priority Substances that they Place in Indian Territory shall be in accordance with the eighth revision of the United Nations Global Harmonised System of Classification.
- (3) Manufacturers, Importers or Downstream Users shall ensure that statements that are inconsistent with the classification of that Priority Substance or Hazardous Chemical do not appear on the label or packaging of that substance.
- (4) The Manufacturers, Importers and Downstream Users shall affix the labels firmly to one or more surfaces of the packaging containing the Priority Substance which shall be readable horizontally when the package is set down normally.
- (5) The label elements in the Schedule XVII shall be clearly and indelibly marked. They shall stand out clearly from the background and be of such size and spacing as to be easily read.
- (6) A label shall not be required when the label elements in the Schedule XVII are shown clearly on the packaging itself.
- (7) The label shall be in English and Hindi.

34. Packaging Requirements

A Manufacturer, Importer or Downstream User shall ensure that packaging containing a Priority Substance or a Hazardous Chemical or a Mixture containing more than 10% (w/w) of these, satisfies the following requirements:

- (a) the packaging shall be designed and constructed so that its contents cannot escape, except in cases where more specific safety devices may be required;
- (b) the materials constituting the packaging and fastenings shall not be susceptible to damage by the contents, or liable to form hazardous compounds with the contents;
- (c) the packaging and fastenings shall be strong and solid throughout to ensure that they will not loosen and will safely meet the normal stresses and strains of handling;
- (d) packaging fitted with replaceable fastening devices shall be designed so that it can be refastened repeatedly without the contents escaping; and

(e) if supplied to the general public shall not have either a shape or design likely to mislead consumers.

Chapter VI Miscellaneous

35. Penalties

- (1) Any contravention of these Rules, including specifically:
 - (a) Failure to Notify or Register a Substance or Intermediate within the stipulated time periods;
 - (b) Furnishing of false information at the time of Notification or Registration;
 - (c) Procuring Substances, Mixtures, Intermediates or Articles by Downstream Users which have not been Notified or Registered; or
 - (d) Labelling or packaging the Priority Substances in contravention to these Rules,

shall be subject to fines as set out in Schedule XIX for each day of continuing contravention.

- (2) If the Concerned Authority is of the opinion that a person has contravened the provisions of Chapter IV of these Rules, then it shall serve on such Person an "notice" requiring that person to pay fines as set out in Schedule XIX for each day of contravention and to remedy the contravention or, as the case may be, the matters occasioning it within such period as may be the matters occasioning it within 45 days.
- (3) A "notice" served under sub-rule (2) shall clearly specify the measures to be taken by the Occupier in remedying the said contraventions.

36. Enforcement

(1) The Concerned Authority shall, by itself or through Competent Persons, carry out inspections from time to time on the activities of Manufacturers, Importers, Authorised Representatives and Downstream Users in order to ensure compliance with Chapter III and V of these Rules and also impose and collect fines as per Rule 35.

(2) The Concerned Authority identified in Schedule III for each of the provisions of Chapter IV, shall also be responsible, either by itself or through Competent Persons, for the enforcement of the respective provision set out in Chapter IV and also impose and collect fines as per Rule 35.

37. Savings

These Rules shall be without prejudice to any other law or any other Registration or Notification requirement issued by the Central Government for the time being in force.

Schedule I – PBT and vPvB Assessment Criteria

Criteria for the Identification of Persistent, Bio-accumulative and Toxic (PBT) and very Persistent and very Bio-accumulative (vPvB) Substances

1.1. PBT Substances

A substance that fulfils the persistence, bioaccumulation and toxicity criteria of Sections 1.1.1, 1.1.2 and 1.1.3 shall be considered a PBT substance

1.1.1. Persistence

A substance fulfils the persistence criterion in any of the following situations:

- (a) the degradation half-life in marine water is higher than 60 days; or
- (b) the degradation half-life in fresh or estuarine water is higher than 40 days; or
- (c) the degradation half-life in marine sediment is higher than 180 days; or
- (d) the degradation half-life in fresh or estuarine water sediment is higher than 120 days; or
- (e) the degradation half-life in soil is higher than 120 days.

1.1.2. Bioaccumulation

A substance fulfils the bioaccumulation criterion when the bioconcentration factor in aquatic species is higher than 2000.

1.1.3. Toxicity

A substance fulfils the toxicity criterion in any of the following situations:

- (a) the long-term no-observed effect concentration (NOEC) or EC10 for marine or freshwater organisms is less than 0.01 mg/l; or
- (b) the substance meets the criteria for classification as carcinogenic (category 1A or 1B), germ cell mutagenic (category 1A or 1B), or toxic for reproduction (category 1A, 1B, or 2); or
- (c) there is other evidence of chronic toxicity, as identified by the substance meeting the criteria for classification: specific target organ toxicity after repeated exposure (STOT RE category 1 or 2).

1.2. vPvB Substances

A substance that fulfils the persistence and bio-accumulation criteria of Sections 1.2.1 and 1.2.2 shall be considered a vPvB Substance

1.2.1. Persistence

A substance fulfils the 'very persistent' criterion in any of the following situations:

- (a) the degradation half-life in marine, fresh or estuarine water is higher than 60 days; or
- (b) the degradation half-life in marine, fresh or estuarine water sediment is higher than 180 days; or
- (c) the degradation half-life in soil is higher than 180 days.

1.2.2. Bioaccumulation

A substance fulfils the 'very bio-accumulative' criterion when the bioconcentration factor in aquatic species is higher than 5000.

Sr.	Chemical Name	CAS No.	Hazard
No.			Category
1	Diarsenic trioxide	1327-53-3	Carcinogenic
2	Diarsenic pentaoxide	1303-28-2	Carcinogenic
3	Lead chromate	7758-97-6	Carcinogenic
4	Lead sulfochromate yellow	1344-37-2	Carcinogenic
5	Lead chromate molybdate sulfate red	12656-85-8	Carcinogenic
6	Chromic acid	7738-94-5	Carcinogenic
7	Dichromic acid	13530-68-2	Carcinogenic
8	Sodium dichromate	10588-01-9	Carcinogenic
9	Potassium dichromate	7778-50-9	Carcinogenic
10	Ammonium dichromate	7789-09-5	Carcinogenic
11	Potassium chromate	7789-00-6	Carcinogenic
12	Sodium chromate	7775-11-3	Carcinogenic
13	Formaldehyde, oligomeric reaction products with	25214 70 4	
	aniline	23214-70-4	Carcinogenic
14	1,2-dichloroethane (EDC)	107-06-2	Carcinogenic
15	Dichromium tris(chromate)	24613-89-6	Carcinogenic
16	Strontium chromate	7789-06-2	Carcinogenic
17	Potassium hydroxyootaoxodizincatedichromate	11103 86 0	
		11103-80-9	Carcinogenic
18	Pentazinc chromate octahydroxide	49663-84-5	Carcinogenic
19	1,2-Benzenedicarboxylic acid, di-C6-8-branched	71888-89-6	Toxic for
	alkyl esters, C7-rich	/1000-07-0	reproduction
20	1,2-Benzenedicarboxylic acid, di-C7-11-branched	68515-42-4	Toxic for
	and linear alkyl esters	00515-42-4	reproduction
21	1,2-Benzenedicarboxylic acid, dipentyl ester,	84777-06-0	Toxic for
	branched and linear	04777-00-0	reproduction
22	Anthracene oil	90640-80-5	Carcinogenic
23	Pitch, coal tar, high-temp.	65996-93-2	Carcinogenic
	$20_{-}(4_{-nonvlphenovv})_{-3} 6 9 12 15 18_{-}$		Endocrine
24	$20-(4-10)$ yphenoxy $-5,0,5,12,15,10^{-1}$	27942-27-4	disrupting
			properties
		127087-87-	Endocrine
25	4-Nonylphenol, branched, ethoxylated	0	disrupting
		Ū	properties
	26-(nonvlphenoxy)-3 6 9 12 15 18 21 24-		Endocrine
26	octaoxahexacosan-1-ol	26571-11-9	disrupting
			properties
27	Diisohexyl phthalate	71850-09-4	-

Schedule II – List of Priority Substances required to be Registered

28	2-methyl-1-(4-methylthiophenyl)-2-	71868 10 5	
	morpholinopropan-1-one	/1808-10-5	-
29	2-benzyl-2-dimethylamino-4'-	119313-12-	
	morpholinobutyrophenone	1	-
30	Phenol, 4-nonyl-, phosphite (3:1)	3050-88-2	-
31	Tris(nonylphenyl) phosphite	26523-78-4	-
32	4-tert-butylphenol	98-54-4	-
33	2-methoxyethyl acetate	110-49-6	-
34	2,3,3,3-tetrafluoro-2-	20(2,08,8	
	(heptafluoropropoxy)propionyl fluoride	2062-98-8	-
35	Ammonium 2,3,3,3-tetrafluoro-2-	(2027.80.2	
	(heptafluoropropoxy)propanoate	62037-80-3	-
36	Potassium 2,3,3,3-tetrafluoro-2-	(7110.55.2	
	(heptafluoropropoxy)propionate	6/118-55-2	-
37	2,3,3,3-tetrafluoro-2-	12252 12 (
	(heptafluoropropoxy)propionic acid	13252-13-6	-
38	Pyrene	129-00-0	-
39	Phenanthrene	85-01-8	-
40	Fluoranthene	206-44-0	-
41	Benzo[k]fluoranthene	207-08-9	-
42	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	-
43	177 trimothyl 2		
	(nhonylmothylong)higyala[2,2,1]hontan, 2, and	15087-24-8	-
	(phenyhnethylene)olcyclo[2.2.1]heptali-2-one		
44	Terphenyl, hydrogenated	61788-32-7	-
45	Octamethylcyclotetrasiloxane	556-67-2	-
46	Lead	7439-92-1	-
47	Ethylenediamine	107-15-3	-
48	Dodecamethylcyclohexasiloxane	540-97-6	-
49	Disodium octaborate	12008-41-2	-
50	Dicyclohexyl phthalate	84-61-7	-
51	Decamethylcyclopentasiloxane	541-02-6	-
52	Benzo[ghi]perylene	191-24-2	-
53	Benzene-1 2 4-tricarboxylic acid 1 2 anhydride	552-30-7	_
54	Formaldehyde, reaction products with branched	02025 00 0	
	and linear heptylphenol, carbon disulfide and	93925-00-9	-
	hydrazine	210.01.0	
55	Chrysene	218-01-9	-
56	Cadmium nitrate	10325-94-7	-
57	Cadmium hydroxide	21041-95-2	-
58	Cadmium carbonate	513-78-0	-
59	Benz[a]anthracene	56-55-3	-

60	1,6,7,8,9,14,15,16,17,17,18,18-		
	dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]	13560-89-9	-
	octadeca-7,15-diene		
61	Perfluorohexane-1-sulphonic acid	355-46-4	-
62	Tridecafluorohexanesulphonic acid, compound	70225 16 0	
	with 2,2'-iminodiethanol (1:1)	/0223-10-0	-
63	Ammonium perfluorohexane-1-sulphonate	68259-08-5	-
64	Potassium perfluorohexane-1-sulphonate	3871-99-6	-
65	p-(1,1-dimethylpropyl)phenol	80-46-6	-
66	Nonadecafluorodecanoic acid	335-76-2	-
67	Decanoic acid, nonadecafluoro-, sodium salt	3830-45-3	-
68	Ammonium nonadecafluorodecanoate	3108-42-7	-
69	Phenol, heptyl derivs.	72624-02-3	-
70	4-heptylphenol	1987-50-4	-
71	4,4'-isopropylidenediphenol	80-05-7	-
72	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	-
73	Perfluorononan-1-oic-acid	375-95-1	-
74	So diverse alte of northeansanana 1 ais said	-, 21049-39-	
	Sodium saits of perhuorononan-1-oic-acid	8	-
75	Ammonium salts of perfluorononan-1-oic-acid	-, 4149-60-4	-
76	Nitrobenzene	98-95-3	-
77	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-	26427 27 2	
	butyl)phenol (UV-350)	36437-37-3	-
78	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-	2864 00 1	
	yl)phenol (UV-327)	3804-99-1	-
79	1,3-propanesultone	1120-71-4	-
80	reaction mass of 5-(sec-butyl)-2-(2,4-		
	dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-	117022.80	
	dioxane and 5-(sec-butyl)-2-(4,6-	11/935-89- Q	-
	dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-	0	
	dioxane		
81	2-(2,4-Dimethylcyclohex-3-ene-1-yl)-5-methyl-	117933-89-	_
	(1-methylpropyl)-1,3-dioxane	8	_
82	1,2-Benzenedicarboxylic acid, mixed decyl and	68648-93-1	_
	hexyl and octyl diesters	000-0-75-1	-
83	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl	68515-51-5	_
	esters	00010 01-0	
84		10124-36-4,	
1	Cadmium sulphate	,	_
	Cadmium sulphate	31119-53-6	-

86	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa- 3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	-
87	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV- 320)	3846-71-7	-
88	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	-
89	Sodium peroxometaborate	7632-04-4	-
90	Perboric acid, sodium salt	11138-47-9	-
91	Sodium perborate	15120-21-5	-
92	Cadmium chloride	10108-64-2	-
93	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	-
94	Trixylyl phosphate	25155-23-1	-
95	Lead di(acetate)	301-04-2	-
96	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	-
97	Disodium 4-amino-3-[[4'-[(2,4- diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5- hydroxy-6-(phenylazo)naphthalene-2,7- disulphonate (C.I. Direct Black 38)	1937-37-7	-
98	Disodium 3,3'-[[1,1'-biphenyl]-4,4'- diylbis(azo)]bis(4-aminonaphthalene-1- sulphonate) (C.I. Direct Red 28)	573-58-0	-
99	Dihexyl phthalate	84-75-3	-
100	Cadmium sulphide	1306-23-6	-
101	Pentadecafluorooctanoic acid (PFOA)	335-67-1	-
102	Dipentyl phthalate (DPP)	131-18-0	-
103	Cadmium oxide	1306-19-0	-
104	Cadmium	7440-43-9	-
105	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	-
106	2-[2-[2-[2-(4- nonylphenoxy)ethoxy]ethoxy]ethoxy]ethanol	7311-27-5	-
107	20-(4-nonylphenoxy)-3,6,9,12,15,18- hexaoxaicosan-1-ol	27942-27-4	-
108	4-Nonylphenol, ethoxylated	26027-38-3	-
109	Nonylphenol, branched, ethoxylated	68412-54-4	-
110	Nonylphenol, ethoxylated	9016-45-9	-
111	2-[2-(4-nonylphenoxy)ethoxy]ethanol	20427-84-3	-
112	26-(4-nonylphenoxy)-3,6,9,12,15,18,21,24- Octaoxahexacosan-1-ol	14409-72-4	-

113	26-(nonylphenoxy)-3,6,9,12,15,18,21,24-	26571-11-9	-
	octaoxahexacosan-1-ol		
114	4-Nonylphenol, branched, ethoxylated	127087-87-	-
115	2_{1}	1110//0_	
115	vl)nhenovylethovylethanol	38-5	-
116	Poly(ovy 1.2 ethanediy) a (nonylphenyl) w	50-5	
110	$r_{OV}(0xy-1,2-\text{chanced}y), a-(nonyiphenyi)-w-$	9016-45-9	-
117	Isononylphenol_ethoxylated	37205 87 1	
117		1110440	-
110	2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethanol	37-4	-
119	Trilead dioxide phosphonate	12141-20-7	-
120	Trilead bis(carbonate) dihydroxide	1319-46-6	-
121	Tricosafluorododecanoic acid	307-55-1	-
122	Tetralead trioxide sulphate	12202-17-4	-
123	Tetraethyllead	78-00-2	-
124	Sulfurous acid, lead salt, dibasic	62229-08-7	-
125	Silicic acid, lead salt	11120-22-2	-
126	Silicic acid (H2Si2O5), barium salt (1:1), lead-		
	doped	68784-75-8	-
127	Pyrochlore, antimony lead yellow	8012-00-8	-
128	Pentalead tetraoxide sulphate	12065-90-6	-
129	Pentacosafluorotridecanoic acid	72629-94-8	-
130	Orange lead (lead tetroxide)	1314-41-6	-
131	o-toluidine	95-53-4	-
132	o-aminoazotoluene	97-56-3	-
133	N-methylacetamide	79-16-3	-
134	N,N-dimethylformamide	68-12-2	-
135	Methyloxirane (Propylene oxide)	75-56-9	-
136	Methoxyacetic acid	625-45-6	-
137	Lead titanium zirconium oxide	12626-81-2	-
138	Lead titanium trioxide	12060-00-3	-
139	Lead oxide sulphate	12036-76-9	-
140	Lead monoxide (lead oxide)	1317-36-8	-
141	Lead dinitrate	10099-74-8	-
142	Lead cyanamidate	20837-86-9	-
143	Lead bis(tetrafluoroborate)	13814-96-5	-
144	Hexahydro-1-methylphthalic anhydride	48122-14-1	-
145	Hexahydromethylphthalic anhydride	25550-51-0	-
146	Hexahydro-4-methylphthalic anhydride	19438-60-9	-
147	Hexahydro-3-methylphthalic anhydride	57110-29-9	-
148	Heptacosafluorotetradecanoic acid	376-06-7	-

149	Henicosafluoroundecanoic acid	2058-94-8	-
150	Furan	110-00-9	-
151	Fatty acids, C16-18, lead salts	91031-62-8	-
152	Dioxobis(stearato)trilead	12578-12-0	-
153	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	-
154	Dimethyl sulphate	77-78-1	-
155	Diisopentyl phthalate	605-50-5	-
156	Diethyl sulphate	64-67-5	-
157	Dibutyltin dichloride (DBTC)	683-18-1	-
158	Diazene-1,2-dicarboxamide (C,C'-	122 77 2	
	azodi(formamide)) (ADCA)	123-77-3	-
159	cis-cyclohexane-1,2-dicarboxylic anhydride	13149-00-3	-
160	Cyclohexane-1,2-dicarboxylic anhydride	85-42-7	-
161	trans-cyclohexane-1,2-dicarboxylic anhydride	14166-21-3	-
162	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	-
163	Biphenyl-4-ylamine	92-67-1	-
164	Acetic acid, lead salt, basic	51404-69-4	-
165	[Phthalato(2-)]dioxotrilead	69011-06-9	-
166	6-methoxy-m-toluidine (p-cresidine)	120-71-8	-
167	4-(1-ethyl-1-methylhexyl)phenol	52427-13-1	-
168	p-(1-methyloctyl)phenol	17404-66-9	-
169	p-(1,1-dimethylheptyl)phenol	30784-30-6	-
170	4-(3,6-Dimethyl-3-heptyl)phenol	142731-63- 3	-
171	Phenol, 4-nonyl-, branched	84852-15-3	-
172	p-nonylphenol	104-40-5	-
173	p-isononylphenol	26543-97-5	-
174	4-(3,5-Dimethyl-3-heptyl)phenol	186825-36- 5	-
175	Nonylphenol	25154-52-3	-
176		186825-39-	
	4-(3-ethylheptan-2-yl)phenol	8	-
177	Phenol, nonyl-, branched	90481-04-2	-
178	Isononylphenol	11066-49-2	-
179	4-(2,6-Dimethyl-2-heptyl)phenol	521947-27- 3	-
180	4-methyl-m-phenylenediamine (toluene-2,4- diamine)	95-80-7	-
181	4-aminoazobenzene	60-09-3	-

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	182	20-[4-(1,1,3,3-tetramethylbutyl)phenoxy]-	2497-59-8	_
183 4-tert-Octylphenol monoethoxylate 2315-67-5 - 184 2-{2-{4-(2,4,4-trimethylpentan-2- yl)phenoxylethoxy} ethanol 2315-61-9 - 185 2-{4-(2,4,4-trimethylpentan-2-yl)phenoxylethanol 9002-93-1 - 186 4,4-oxydianiline 101-80-4 - 187 3-ethyl-2-methyl-o-toluidine 838-88-0 - 188 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3- 143860-04- - 0xazolidine 2 - - 189 1-bromopropane (n-propyl bromide) 106-94-5 - 190 1,2-diethoxyethane 629-14-1 - 191 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear 84777-06-0 - 192 α, a -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. 6786-83-0 - 193 N,NN,N.W.tetramethyl-4,4'-methylenedianiline (Michler's base) 101-61-1 - 194 Lead(II) bis(methanesulfonate) 17570-76-2 - 195 Formamide 75-12-7 - 196 Diboron trioxide 1303-86-2 - 197 [4-[4,4-bis(dimethylami		3,6,9,12,15,18-hexaoxaicosan-1-ol	2137 03 0	
184 2-{2-[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethanol 2315-61-9 - 185 2-[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethanol 9002-93-1 - 186 4,4'-oxydianiline 101-80-4 - 187 4,4'-methylenedi-o-toluidine 838-88-0 - 188 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3- 14380-04- 2 - 189 1-bromopropane (n-propyl bromide) 106-94-5 - 190 1,2-diethoxyethane 629-14-1 - 191 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear 84777-06-0 - 192 α, α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)papthalene-1-methanol (C.I. Solvent Blue 4) 6786-83-0 - 193 N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) 101-61-1 - 194 Lcad(II) bis(methanesulfonatc) 17570-76-2 - 195 Formamide 75-12-7 - 196 Diboron trioxide 1303-86-2 - 197 [4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5- dien-1-ylidene] dimethylaminoni mchloride (C.I. Basic Blue 26) 548-62-9 - 198 [4-[4	183	4-tert-Octylphenol monoethoxylate	2315-67-5	-
	184	2-{2-[4-(2,4,4-trimethylpentan-2-	2315-61-9	_
185 2-[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethanol 9002-93-1 - 186 4,4'-oxydianiline 101-80-4 - 187 4,4'-methylenedi-o-toluidine 838-88-0 - 188 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3- 143860-04- 2 189 1-bromopropane (n-propyl bromide) 106-94-5 - 190 1,2-diethoxyethane 629-14-1 - 191 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear 84777-06-0 - 192 α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) 6786-83-0 - 193 N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) 101-61-1 - 194 Lead(II) bis(methanesulfonate) 17570-76-2 - 195 Formamide 75-12-7 - 196 Diboron trioxide 1303-86-2 - 197 [4-[[4-arilino-1-naphthyl]methylenc]cyclohexa-2,5-dien-1- ylidene]dimethylamino)benzophenone (Michler's ketone) 548-62-9 - 198 [4-[4,4-bis(dimethylamino)benzophenone (Michler's ketone) 90-94-8 <td></td> <td>yl)phenoxy]ethoxy}ethanol</td> <td>2515-01-9</td> <td>_</td>		yl)phenoxy]ethoxy}ethanol	2515-01-9	_
186 4,4'-oxydianiline 101-80-4 - 187 4,4'-methylenedi-o-toluidine 838-88-0 - 188 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3- oxazolidine 143860-04- 2 - 189 1-bromopropane (n-propyl bromide) 106-94-5 - 190 1,2-diethoxyethane 629-14-1 - 191 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear 84777-06-0 - 192 α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) 6786-83-0 - 193 N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) 101-61-1 - 194 Lead(II) bis(methanesulfonate) 17570-76-2 - 195 Formamide 75-12-7 - 196 Diboron trioxide 1303-86-2 - 197 [4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5- dien-1-ylidene]dimethylaminoim chloride (C.I. Basic Blue 26) 2580-56-5 - 198 [4-[4,4'-bis(dimethylamino)benzophenone (Michler's ketone) 90-94-8 - 200 4,4'-bis(dimethylamino)-4"-(methylam	185	2-[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethanol	9002-93-1	-
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	186	4,4'-oxydianiline	101-80-4	-
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	187	4,4'-methylenedi-o-toluidine	838-88-0	-
oxazolidine 2 - 189 1-bromopropane (n-propyl bromide) 106-94-5 - 190 1,2-diethoxyethane 629-14-1 - 191 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear 84777-06-0 - 192 a_{α} -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. 6786-83-0 - Solvent Blue 4) 101-61-1 - - 193 N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) 101-61-1 - 194 Lead(II) bis(methanesulfonate) 17570-76-2 - 195 Formamide 75-12-7 - 196 Diboron trioxide 1303-86-2 - 197 [4-[[4-anilino-1-naphthyl]][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) 2580-56-5 - 198 [4-[4.4'-bis(dimethylamino) benzhydrylidenc]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3) 548-62-9 - 200 4,4'-bis(dimethylamino)-4"-(methylamino)triyl alcohol 561-41-1 - 201 1,3,5-tris[(2S and 2R)-2,3-epoxyp	188	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-	143860-04-	
189 1-bromopropane (n-propyl bromide) 106-94-5 - 190 1,2-dicthoxycthane 629-14-1 - 191 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear 84777-06-0 - 192 a, α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) 6786-83-0 - 193 N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) 101-61-1 - 194 Lead(II) bis(methancsulfonate) 17570-76-2 - 195 Formamide 75-12-7 - 196 Diboron trioxide 1303-86-2 - 197 [4-[[4-anilino-1-naphthyl]][4- (dimethylamino)phenyl]methylenc]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) 2580-56-5 - 198 [4-[4.4'-bis(dimethylamino) benzhydrylidenc]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3) 548-62-9 - 199 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) 90-94-8 - 200 4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol 561-41-1 - 201 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC) 59653-74-6 - <t< td=""><td></td><td>oxazolidine</td><td>2</td><td>-</td></t<>		oxazolidine	2	-
190 1,2-dicthoxyethane 629-14-1 - 191 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear 84777-06-0 - 192 a,a -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) 6786-83-0 - 193 N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) 101-61-1 - 194 Lead(II) bis(methanesulfonate) 17570-76-2 - 195 Formamide 75-12-7 - 196 Diboron trioxide 1303-86-2 - 197 [4-[[4-anilino-1-naphthyl]][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) 2580-56-5 - 198 [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3) 548-62-9 - 199 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) 90-94-8 - 200 4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol 561-41-1 - 201 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC) 59653-74-6 - 202 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane- 2,4,6-trione (TGIC) 2451-62-9 <td>189</td> <td>1-bromopropane (n-propyl bromide)</td> <td>106-94-5</td> <td>-</td>	189	1-bromopropane (n-propyl bromide)	106-94-5	-
1911,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear84777-06-0192 a, α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)6786-83-0193N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)101-61-1194Lead(II) bis(methanesulfonate)17570-76-2195Formamide75-12-7196Diboron trioxide1303-86-2197[4-[[4-anilino-1-naphthyl]][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)2580-56-5198[4-[4,4'-bis(dimethylamino)) benzhydrylidene]cyclohexa-2,5-dien-1- ylidene]dimethylamino)benzophenone (Michler's ketone)90-94-82004,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol561-41-12011,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)59653-74-62021,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane- 2,4,6-trione (TGIC)2451-62-92031,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)112-49-2	190	1,2-diethoxyethane	629-14-1	-
branched and linear 84///-06-0 - 192 a, a -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) 6786-83-0 - 193 N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) 101-61-1 - 194 Lead(II) bis(methanesulfonate) 17570-76-2 - 195 Formamide 75-12-7 - 196 Diboron trioxide 1303-86-2 - 197 [4-[[4-anilino-1-naphthyl]][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) 2580-56-5 - 198 [4-[[4,4'-bis(dimethylamino) berzhydrylidene]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3) 548-62-9 - 199 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) 90-94-8 - 200 4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol 561-41-1 - 201 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC) 59653-74-6 - 202 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane- 2,4,6-trione (TGIC) 2451-62-9 - 203 1,2-bis(2-methoxyetho	191	1,2-Benzenedicarboxylic acid, dipentyl ester,	0.4777 0.0	
192 a,a -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) 6786-83-0 - 193 N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) 101-61-1 - 194 Lead(II) bis(methanesulfonate) 17570-76-2 - 195 Formamide 75-12-7 - 196 Diboron trioxide 1303-86-2 - 197 [4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) 2580-56-5 - 198 [4-[4,4'-bis(dimethylamino) benzhydrylidenc]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3) 548-62-9 - 199 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) 90-94-8 - 200 4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol 561-41-1 - 201 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC) 59653-74-6 - 202 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane- 2,4,6-trione (TGIC) 2451-62-9 - 203 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 112-49-2 -		branched and linear	84777-06-0	-
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	192	α, α -Bis[4-(dimethylamino)phenyl]-4		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		(phenylamino)naphthalene-1-methanol (C.I.	6786-83-0	-
193N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)101-61-1194Lead(II) bis(methanesulfonate)17570-76-2195Formamide75-12-7196Diboron trioxide1303-86-2197[4-[[4-anilino-1-naphthyl]][4- (dimethylamino)phenyl]methylenc]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)2580-56-5198[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3)548-62-91994,4'-bis(dimethylamino)benzophenone (Michler's ketone)90-94-82004,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol561-41-12011,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)59653-74-62021,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane- 2,4,6-trione (TGIC)2451-62-92031,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)112-49-2		Solvent Blue 4)		
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195Formamide75-12-7-196Diboron trioxide1303-86-2-197[4-[[4-anilino-1-naphthyl]][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)2580-56-5-198[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3)548-62-9-1994,4'-bis(dimethylamino)benzophenone (Michler's ketone)90-94-8-2004,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol561-41-1-2011,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)59653-74-6-2021,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane- 2,4,6-trione (TGIC)2451-62-9-2031,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)112-49-2-	194	Lead(II) bis(methanesulfonate)	17570-76-2	-
196Diboron trioxide1303-86-2-197[4-[[4-anilino-1-naphthyl]][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)2580-56-5-198[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3)548-62-9-1994,4'-bis(dimethylamino)benzophenone (Michler's ketone)90-94-8-2004,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol561-41-1-2011,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)59653-74-6-2021,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane- 2,4,6-trione (TGIC)2451-62-9-2031,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)112-49-2-	195	Formamide	75-12-7	-
197[4-[[4-anilino-1-naphthyl]][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)2580-56-5-198[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3)548-62-9-1994,4'-bis(dimethylamino)benzophenone (Michler's ketone)90-94-8-2004,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol561-41-1-2011,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)59653-74-6-2021,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane- 2,4,6-trione (TGIC)2451-62-9-2031,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)112-49-2-	196	Diboron trioxide	1303-86-2	-
$\begin{array}{ c c c c c } \hline \begin{array}{c} (dimethylamino) phenyl] methylene] cyclohexa-2,5-\\ dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) \\ \hline \begin{array}{c} 198 \\ [4-[4,4]-bis(dimethylamino) \\ benzhydrylidene] cyclohexa-2,5-dien-1-\\ ylidene] dimethylammonium chloride (C.I. Basic Violet 3) \\ \hline \begin{array}{c} 199 \\ 4,4]-bis(dimethylamino) benzophenone (Michler's \\ ketone) \\ \hline \end{array} \begin{array}{c} 90.94-8 \\ - \\ \hline \end{array} \begin{array}{c} 200 \\ 4,4]-bis(dimethylamino)-4]-(methylamino)trityl \\ alcohol \\ \hline \end{array} \begin{array}{c} 561-41-1 \\ - \\ \hline \end{array} \begin{array}{c} 201 \\ 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-\\ triazine-2,4,6-(1H,3H,5H)-trione (\beta-TGIC) \\ \hline \end{array} \begin{array}{c} 59653-74-6 \\ - \\ \hline \end{array} \begin{array}{c} 202 \\ 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-\\ 2,4,6-trione (TGIC) \\ \hline \end{array} \begin{array}{c} 203 \\ 1,2-bis(2-methoxyethoxy)ethane (TEGDME; \\ triglyme) \\ \hline \end{array} \begin{array}{c} 112-49-2 \\ - \\ \hline \end{array}$	197	[4-[[4-anilino-1-naphthyl]][4-		
$\begin{array}{ c c c c c } \hline & & & & & & & & & & & & & & & & & & $		(dimethylamino)phenyl]methylene]cyclohexa-2,5-		
Basic Blue 26)Basic Blue 26)198[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3)548-62-91994,4'-bis(dimethylamino)benzophenone (Michler's ketone)90-94-82004,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol561-41-12011,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)59653-74-62021,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane- 2,4,6-trione (TGIC)2451-62-92031,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)112-49-2		dien-1-ylidene] dimethylammonium chloride (C.I.	2580-56-5	-
198[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3)548-62-91994,4'-bis(dimethylamino)benzophenone (Michler's ketone)90-94-82004,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol561-41-12011,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)59653-74-62021,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane- 2,4,6-trione (TGIC)2451-62-92031,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)112-49-2		Basic Blue 26)		
$\begin{array}{ c c c c } & benzhydrylidene]cyclohexa-2,5-dien-1-\\ & ylidene]dimethylammonium chloride (C.I. BasicViolet 3) \\ \hline 199 & 4,4'-bis(dimethylamino)benzophenone (Michler'sketone) \\ \hline 200 & 4,4'-bis(dimethylamino)-4''-(methylamino)tritylalcohol \\ \hline 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (\beta-TGIC) \\ \hline 202 & 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) \\ \hline 203 & 1,2-bis(2-methoxyethoxy)ethane (TEGDME;triglyme) \\ \hline 112-49-2 & - \\ \end{array}$	198	[4-[4,4'-bis(dimethylamino)		
ylidene]dimethylammonium chloride (C.I. Basic Violet 3)548-62-91994,4'-bis(dimethylamino)benzophenone (Michler's ketone)90-94-82004,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol561-41-12011,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)59653-74-62021,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane- 2,4,6-trione (TGIC)2451-62-92031,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)112-49-2		benzhydrylidene]cyclohexa-2,5-dien-1-		
Violet 3) Violet 3) 199 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) 90-94-8 200 4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol 561-41-1 201 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazina-2,4,6-(1H,3H,5H)-trione (β-TGIC) 59653-74-6 202 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-(1H,3H,5H)-trione (β-TGIC) 2451-62-9 203 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 112-49-2		ylidene]dimethylammonium chloride (C.I. Basic	548-62-9	-
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ketone)90-94-8200 $4,4'$ -bis(dimethylamino)-4"-(methylamino)trityl alcohol561-41-1201 $1,3,5$ -tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC)59653-74-6202 $1,3,5$ -Tris(oxiran-2-ylmethyl)-1,3,5-triazinane- 2,4,6-trione (TGIC)2451-62-9203 $1,2$ -bis(2-methoxyethoxy)ethane (TEGDME; triglyme)112-49-2	199	4,4'-bis(dimethylamino)benzophenone (Michler's	00.04.0	
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	200	4,4'-bis(dimethylamino)-4"-(methylamino)trityl		
201 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC) 59653-74-6 - 202 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) 2451-62-9 - 203 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 112-49-2 -		alcohol	561-41-1	-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	201			
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202 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane- 2,4,6-trione (TGIC) 2451-62-9 - 203 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 112-49-2 -		triazine-2,4,6-(1H,3H,5H)-trione (β -1GIC)		
2,4,6-trione (TGIC) 2451-62-9 - 203 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 112-49-2 -	202	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-	2451 (2.0	
2031,2-bis(2-methoxy)ethane (TEGDME; triglyme)112-49-2		2,4,6-trione (TGIC)	2451-62-9	-
triglyme) 112-49-2 -	203	1,2-bis(2-methoxyethoxy)ethane (TEGDME;	112 40 2	
		triglyme)	112-49-2	-

204	1, 2-dimethoxyethane; ethylene glycol dimethyl	110-71-4	_
	ether (EGDME)	110-71-4	-
205	Trilead diarsenate	3687-31-8	-
206	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	-
207	Phenolphthalein	77-09-8	-
208	Pentazinc chromate octahydroxide	49663-84-5	-
209	N,N-dimethylacetamide	127-19-5	-
210	Lead styphnate	15245-44-0	-
211	Lead dipicrate	6477-64-1	-
212	Lead diazide, Lead azide	13424-46-9	-
213	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	-
214	Dichromium tris(chromate)	24613-89-6	-
215	Calcium arsenate	7778-44-1	-
216	Bis(2-methoxyethyl) phthalate	117-82-8	-
217	Bis(2-methoxyethyl) ether	111-96-6	-
218	Arsenic acid	7778-39-4	-
219	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	-
220	2-Methoxyaniline, o-Anisidine	90-04-0	-
221	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	-
222	1,2-dichloroethane	107-06-2	-
223	Strontium chromate	7789-06-2	-
224	Hudrozina	302-01-2,	
		7803-57-8	-
225	2-ethoxyethyl acetate	111-15-9	-
226	1-Methyl-2-pyrrolidone (NMP)	872-50-4	-
227	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	-
228	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	-
229	1,2,3-trichloropropane	96-18-4	-
230	Cobalt(II) sulphate	10124-43-3	-
231	Cobalt(II) dinitrate	10141-05-6	-
232	Cobalt(II) diacetate	71-48-7	-
233	Cobalt(II) carbonate	513-79-1	-
234	Chromium trioxide	1333-82-0	-
235	Dichromic acid	13530-68-2	-
236	Chromic acid	7738-94-5	-
237	2-methoxyethanol	109-86-4	-
238	2-ethoxyethanol	110-80-5	-
239	Trichloroethylene	79-01-6	-

	240	Tetraboron disodium heptaoxide, hydrate	12267-73-1	-
	241	Sodium chromate	7775-11-3	-
	242	Potassium dichromate	7778-50-9	-
	243	Potassium chromate	7789-00-6	-
	244		12179-04-3,	
		Disodium tetraborate, anhydrous	1303-96-4,	-
			1330-43-4	
	245	Boric acid, crude natural	11113-50-1	-
	246	Boric acid	10043-35-3	-
	247	Ammonium dichromate	7789-09-5	-
I	248	Acrylamide	79-06-1	-
ľ	249	Tris(2-chloroethyl) phosphate	115-96-8	-
ľ	250	Pitch, coal tar, high-temp.	65996-93-2	-
	251	Lead sulfochromate yellow (C.I. Pigment Yellow	1244 27 2	
		34)	1344-37-2	-
	252	Lead chromate molybdate sulphate red (C.I.	12(5(05 0	
		Pigment Red 104)	12656-85-8	-
ľ	253	Lead chromate	7758-97-6	-
	254	Diisobutyl phthalate	84-69-5	-
	255	Anthracene oil, anthracene-low	90640-82-7	-
	256	Anthracene oil, anthracene paste, distn. lights	91995-17-4	-
	257	Anthracene oil, anthracene paste, anthracene	01005 15 0	
		fraction	91995-15-2	-
ľ	258	Anthracene oil, anthracene paste	90640-81-6	-
	259	Anthracene oil	90640-80-5	-
ľ	260	2,4-dinitrotoluene	121-14-2	-
ľ	261	Triethyl arsenate	15606-95-8	-
	262		10588-01-9,	
		Sodium dichromate	7789-12-0	-
ľ	263	Lead hydrogen arsenate	7784-40-9	-
	264	1,2,5,6,9,10-hexabromocyclododecane	3194-55-6	-
	265		134237-52-	
		gamma-hexabromocyclododecane	8	-
	266	Hexabromocyclododecane	25637-99-4	-
	267		134237-50-	
		alpha-hexabromocyclododecane	6	-
	268		12/227 51	
			134237-31-	
		beta-hexabromocyclododecane	7	-
	269	beta-hexabromocyclododecane Dibutyl phthalate (DBP)	7 84-74-2	-
	269 270	beta-hexabromocyclododecane Dibutyl phthalate (DBP) Diarsenic trioxide	7 84-74-2 1327-53-3	
•	269 270 271	beta-hexabromocyclododecane Dibutyl phthalate (DBP) Diarsenic trioxide Diarsenic pentaoxide	7 84-74-2 1327-53-3 1303-28-2	- - - -
•	269 270 271 272	beta-hexabromocyclododecane Dibutyl phthalate (DBP) Diarsenic trioxide Diarsenic pentaoxide Cobalt dichloride	7 84-74-2 1327-53-3 1303-28-2 7646-79-9	- - - - -

273	Bis(tributyltin) oxide (TBTO)	56-35-9	-
274	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	-
275	Benzyl butyl phthalate (BBP)	85-68-7	-
276	Anthracene	120-12-7	-
277	Alkanes, C10-13, chloro (Short Chain Chlorinated	95525 94 9	
	Paraffins)	85555-84-8	-
278	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	-
279	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	-
280	1,1,1,2-Tetrachloroethane	630-20-6	-
281	1,1,2,2-Tetrachloroethane	79-34-5	-
282	1,1,2-Trichloroethane	79-00-5	-
283	1,1-Dichloroethene	75-35-4	-
284	1,4-Dichlorobenzene	106-46-7	-
285	1-methyl-2-pyrrolidone	872-50-4	-
286	2-(2-butoxyethoxy)ethanol (DEGBE)	112-34-5	-
287	2-(2-methoxyethoxy)ethanol (DEGME)	111-77-3	-
288	2-naphthylamine	91-59-8	-
289	2-naphthylammonium chloride	612-52-2	-
290	2-naphthylammonium acetate	553-00-4	-
291	4,4'-isopropylidenediphenol	80-05-7	-
292	4-Aminobiphenyl xenylamine	92-67-1	-
293	4-Nitrobiphenyl	92-93-3	-
294	Acrylamide	79-06-1	-
295	Ammonium nitrate (AN)	6484-52-2	-
296	Trisodium arsenide	12044-25-6	-
297	Praseodymium arsenide	12044-28-9	-
298	Trimagnesium diarsenide	12044-49-4	-
299	Diarsenic tritelluride	12044-54-1	-
300	Zinc diarsenide	12044-55-2	-
301	Nickel diarsenide	12068-61-0	-
302	Dichromium arsenide	12254-85-2	-
303	Erbium arsenide	12254-88-5	-
304	Lanthanum arsenide	12255-04-8	-
305	Niobium arsenide	12255-08-2	-
306	Neodymium arsenide	12255-09-3	-
307	Triantimony arsenide	12255-36-6	-
308	Samarium arsenide	12255-39-9	-
309	Yttrium arsenide	12255-48-0	-
310	Tribarium diarsenide	12255-50-4	-
311	Tricalcium diarsenide	12255-53-7	-
312	Germanium arsenide	12271-72-6	-

313	Trisilver arsenide	12417-99-1	-
314	Arsenic sulphide	12612-21-4	-
315	Ammonium dihydrogenarsenate	13462-93-6	-
316	Potassium arsenite	13464-35-2	-
317	Trisodium arsenite	13464-37-4	-
318	Trisodium arsenate	13464-38-5	-
319	Zinc arsenate	13464-44-3	-
320	Tristrontium diarsenate	13464-68-1	-
321	Tribarium diarsenate	13477-04-8	-
322	Trinickel bis(arsenate)	13477-70-8	-
323	Trilithium arsenate	13478-14-3	-
324	Trisilver arsenate	13510-44-6	-
325	Sodium metaarsenate	15120-17-9	-
326	Triethyl arsenite	3141-12-6	-
327	Trilead diarsenate	3687-31-8	-
328	Disodium 4-[(o-arsonophenyl)azo]-3-	2699 02 4	
	hydroxynaphthalene-2,7-disulphonate	3088-92-4	-
329	Diphenyldiarsenic acid	4519-32-8	-
330	Dimethylarsinic acid	75-60-5	-
331	Roxarsone	121-19-7	-
332	Sodium dimethylarsinate	124-65-2	-
333	6,6'-dihydroxy-3,3'-diarsene-1,2-diyldianilinium	139_93_5	_
	dichloride	157-75-5	-
334	Oxophenarsine	306-12-7	-
335	Copper diarsenite	16509-22-1	-
336	Potassium hexafluoroarsenate	17029-22-0	-
337	Hydrogen hexafluoroarsenate	17068-85-8	-
338	N-(p-arsenosophenyl)-1,3,5-triazine-2,4,6-	21840 08 4	
	triamine	21840-08-4	-
339	Aluminium arsenide	22831-42-1	-
340	Triammonium arsenate	24719-13-9	-
341	Tricobalt diarsenate	24719-19-5	-
342	Cobalt arsenide	27016-73-5	-
343	Nickel arsenide	27016-75-7	-
344	Tricalcium diarsenite	27152-57-4	-
345	3-methyl-4-(pyrrolidin-1-yl)benzenediazonium	27560.00.1	
	hexafluoroarsenate	27509-09-1	-
346	Antimony arsenate	28980-47-4	-
347	Arsenic acid, copper(2+) salt	29871-13-4	-
348	Lithium hexafluoroarsenate	29935-35-1	-
349	Ammonium copper arsenate	32680-29-8	-
350	Europium arsenide	32775-46-5	-
351	Tristrontium diarsenide	39297-24-0	-
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352	Triphenylsulphonium hexafluoroarsenate(1-)	57900-42-2	-
353	Zirconium arsenide	60909-47-9	-
354	Trimanganese arsenide	61219-26-9	-
355	Disodium 3,6-bis[(o-arsonophenyl)azo]-4,5-	62227 00 2	
	dihydroxynaphthalene-2,7-disulphonate	02557-00-2	-
356	Diphenyliodonium hexafluoroarsenate	62613-15-4	-
357	4-(ethylamino)-2-methylbenzenediazonium	62217 22 2	
	hexafluoroarsenate	03217-32-3	-
358	4-(diethylamino)-2-ethoxybenzenediazonium	62217 22 4	
	hexafluoroarsenate	03217-33-4	-
359	Antimony arsenic oxide	64475-90-7	-
360	Arsenic bromide	64973-06-4	-
361	Cobalt arsenide	65453-05-6	-
362	Tris(pentane-2,4-dionato-O,O')silicon	(7251 29 1	
	hexafluoroarsenate	0/231-38-1	-
363	Slimes and Sludges, copper refining	67712-00-9	-
364	Silicic acid (H4SiO4), zinc salt (1:2), arsenic and	69611 46 1	
	manganese-doped	08011-40-1	-
365	Bis(pentane-2,4-dionato-O,O')boron(1+)	69902 01 2	
	hexafluoroarsenate(1-)	08892-01-5	-
366	Antimony oxide (Sb2O3), mixed with arsenic	68051 28 2	
	oxide (As2O3)	08951-58-2	-
367	Lead alloy, base, dross	69011-59-2	-
368	Lead, antimonial, dross	69029-51-2	-
369	Flue dust, lead-refining	69029-67-0	-
370	Disilver arsenide	70333-07-2	-
371	Thallium triarsenide	84057-85-2	-
372	2,6-dimethyl-4-(1-naphthyl)pyrylium	84282 36 0	
	hexafluoroarsenate	84282-30-0	-
373	2,6-dimethyl-4-phenylpyrylium	84304 15 4	
	hexafluoroarsenate	84304-13-4	-
374	4-cyclohexyl-2,6-dimethylpyrylium	84304 16 5	
	hexafluoroarsenate	84304-10-3	-
375	Tris[(8α) -6'-methoxycinchonan-9(R)-ol] arsenite	94138-87-1	-
376	Gallium zinc triarsenide	98106-56-0	-
377	Vanadium(4+) diarsenate (1:1)	99035-51-5	-
378	Strychnidin-10-one. arsenite (1:1)	100258-44-	-
		4	
379	Slimes and Sludges, copper electrolytic refining,	100995-81-	-
	decopperized, arsenic-rich	1	

380	Arsenic acid (H3AsO4), magnesium salt,	102110-21-	
	manganese-doped	4	-
381	Slimes and Sludges, copper-lead ore roasting off	102110-62-	
	gas scrubbing, arsenic-contg.	3	-
382	Sodium hexafluoroarsenate(V)	12005-86-6	-
383	Sodium arsenate dibasic heptahydrate	10048-95-0	-
384	Sodium cacodylate trihydrate	6131-99-3	-
385	Tritylium hexafluoroarsenate	437-15-0	-
386	Neoarsphenamine	457-60-3	-
387	Oxophenarsine hydrochloride	538-03-4	-
388	Tris[(8α,9R)-6'-methoxycinchonan-9-ol]	540 50 7	
	bis(arsenate)	549-59-7	-
389	Sulfarsphenamine	618-82-6	-
390	Phenylarsine oxide	637-03-6	-
391	Gallium arsenide	1303-00-0	-
392	Indium arsenide	1303-11-3	-
393	Diarsenic pentaoxide	1303-28-2	-
394	Arsenic sulphide	1303-33-9	-
395	Diarsenic triselenide	1303-36-2	-
396	Diarsenic trioxide	1327-53-3	-
397	Arsenic	7440-38-2	-
398	Arsenic acid, sodium salt	7631-89-2	-
399	Arsenic acid	7778-39-4	-
400	Disodium hydrogenarsenate	7778-43-0	-
401	Calcium arsenate	7778-44-1	-
402	Trisilver arsenite	7784-08-9	-
403	Arsenic tribromide	7784-33-0	-
404	Arsenic trichloride	7784-34-1	-
405	Trifluoroarsine	7784-35-2	-
406	Pentafluoroarsorane	7784-36-3	-
407	Mercury hydrogenarsenate	7784-37-4	-
408	Manganese hydrogenarsenate	7784-38-5	-
409	Lead hydrogen arsenate	7784-40-9	-
410	Potassium dihydrogenarsenate	7784-41-0	-
411	Diammonium hydrogenarsenate	7784-44-3	-
412	Arsenic triiodide	7784-45-4	-
413	Sodium dioxoarsenate	7784-46-5	-
414	Pentahydroxyarsorane	7786-36-9	-
415	Flue dust, arsenic-contg.	8028-73-7	-
416	Lead arsenite	10031-13-7	-
417	Iron arsenate	10102-49-5	-
418	Iron bis(arsenate)	10102-50-8	-

419	Arsenic acid, magnesium salt	10103-50-1	-
420	Arsenic acid, copper salt	10103-61-4	-
421	Arsenic acid, calcium salt	10103-62-5	-
422	Strychnine arsenate	10476-82-1	-
423	Tricopper arsenide	12005-75-3	-
424	Dysprosium arsenide	12005-81-1	-
425	Diiron arsenide	12005-88-8	-
426	Gadolinium arsenide	12005-89-9	-
427	Holmium arsenide	12005-92-4	-
428	Lutetium arsenide	12005-94-6	-
429	Manganese arsenide	12005-95-7	-
430	Terbium arsenide	12006-08-5	-
431	Thallium arsenide	12006-09-6	-
432	Thulium arsenide	12006-10-9	-
433	Ytterbium arsenide	12006-12-1	-
434	Iron diarsenide	12006-21-2	-
435	Trizinc diarsenide	12006-40-5	-
436	Iron arsenide	12044-16-5	-
437	Digallium arsenide phosphide	12044-20-1	-
438	Tripotassium arsenide	12044-21-2	-
439	Trilithium arsenide	12044-22-3	-
440	Actinolite	77536-66-4	-
441	Tremolite	77536-68-6	-
442	Crocidolite	12001-28-4	-
443	Amosite	12172-73-5	-
444		12001-29-5,	
	Chrysotile	132207-32-	-
		0	
445	Anthophyllite	77536-67-5	-
446	A mixture of: disodium (6-(4-anisidino)-3- sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1- naphtholato)(1-(5-chloro-2-oxidophenylazo)-2- naphtholato)chromate(1-); trisodium bis(6-(4-	118685-33- 9	-
	anisidino)-3-sulfonato-2-(3,5-dinitro-2- oxidophenylazo)-1-naphtholato)chromate(1-)		
447	Benzene	71-43-2	-
448	Benzidine	92-87-5	-
449	Bis(pentabromophenyl) ether	1163-19-5	-
450	Cadmium succinate	141-00-4	-
451	Cadmium dianthranilate	7058-55-1	-
452	Cadmium	7440-43-9	-

453	Cadmium bromide	7789-42-6	-
454	Cadmium fluoride	7790-79-6	-
455	Cadmium iodide	7790-80-9	-
456	Cadmium iodate	7790-81-0	-
457	Cadmium dinitrite	7790-83-2	-
458	Cadmium wolframate	7790-85-4	-
459	Cadmium zinc sulfide yellow	8048-07-5	-
460	Cadmium chloride	10108-64-2	-
461	Cadmium sulphate	10124-36-4	-
462	Cadmium myristate	10196-67-5	-
463	Cadmium nitrate	10325-94-7	-
464	Cadmium dioleate	10468-30-1	-
465	Cadmium selenide sulphide	11112-63-3	-
466	Cadmium titanium trioxide	12014-14-1	-
467	Tricadmium diphosphide	12014-28-7	-
468	Antimony, compound with cadmium (2:3)	12014-29-8	-
469	Cadmium zirconium trioxide	12139-23-0	-
470	Pentacadmium chloridetriphosphate	12185-64-7	-
471	Dicadmium niobate	12187-14-3	-
472	Dicadmium selenide sulphide	12214-12-9	-
473	Cadmium ditantalum hexaoxide	12292-07-8	-
474	Cadmium zinc sulphide	12442-27-2	-
475	Cadmium selenide sulphide	12626-36-7	-
476	Cadmium sulfoselenide orange	12656-57-4	-
477	Tricadmium bis(phosphate)	13477-17-3	-
478	Cadmium silicate	13477-19-5	-
479	Cadmium sulphite	13477-23-1	-
480	Diboron tricadmium hexaoxide	13701-66-1	-
481	Dicadmium hexakis(cyano-C)ferrate(4-)	13755-33-4	-
482	Cadmium selenite	13814-59-0	-
483	Cadmium selenite	13814-62-5	-
484	Cadmium diricinoleate	13832-25-2	-
485	Cadmium orthophosphate	13847-17-1	-
486	Cadmium molybdenum tetroxide	13972-68-4	-
487	Cadmium disulphamate	14017-36-8	-
488	Cadmium hydrogen phosphate	14067-62-0	-
489	Cadmium bis(diethyldithiocarbamate)	14239-68-0	-
490	Cadmium chromate	14312-00-6	-
491	Cadmium dipotassium tetracyanide	14402-75-6	-
492	Cadmium tetrafluoroborate	14486-19-2	-
493	Bis(dibutyldithiocarbamato-S,S')cadmium	14566-86-0	-
494	Bis(pentane-2,4-dionato-O,O')cadmium	14689-45-3	-

495	Tris(ethylenediamine)cadmium dihydroxide	14874-24-9	-
496	Cadmium diicosanoate	14923-81-0	-
497	Cadmium bis(piperidine-1-carbodithioate)	14949-59-8	-
498	Bis(dimethyldithiocarbamato-S,S')cadmium	14949-60-1	-
499	Dimethylcadmium	506-82-1	-
500	Cadmium carbonate	513-78-0	-
501	Cadmium cyanide	542-83-6	-
502	Cadmium di(acetate)	543-90-8	-
503	Cadmium oxalate	814-88-0	-
504	Cadmium dithiocyanate	865-38-3	-
505	Barium cadmium tetrastearate	1191-79-3	-
506	Cadmium oxide	1306-19-0	-
507	Cadmium sulphide	1306-23-6	-
508	Cadmium selenide	1306-24-7	-
509	Cadmium telluride	1306-25-8	-
510	Cadmium di(octanoate)	2191-10-8	-
511	Cadmium distearate	2223-93-0	-
512	Cadmium p-toluate	2420-97-5	-
513	Cadmium bis(2-ethylhexanoate)	2420-98-6	-
514	Cadmium dilaurate	2605-44-9	-
515	Cadmium didecanoate	2847-16-7	-
516	Cadmium bis[benzoate]	3026-22-0	-
517	Cadmium 4-(1,1-dimethylethyl)benzoate	4167-05-9	-
518	Cadmium cinnamate	4390-97-0	-
519	Cadmium diformate	4464-23-7	-
520	Cadmium sebacate	4476-04-4	-
521	Cadmium nonan-1-oate	5112-16-3	-
522	Cadmium dipalmitate	6427-86-7	-
523	Lauric acid, barium cadmium salt	15337-60-7	-
524	Disodium tetrakis(cyano-C)cadmate(2-)	15682-87-8	-
525	Dipotassium [[N,N'-ethylenebis[N-		
	(carboxymethyl)glycinato]](4-)-	15708-29-9	-
	N,N',O,O',ON,ON']cadmate(2-)		
526	Cadmium acrylate	15743-19-8	-
527	Cadmium tellurium trioxide	15851-44-2	-
528	Cadmium tellurium tetraoxide	15852-14-9	-
529	Cadmium dilactate	16039-55-7	-
530	Cadmium divanadium hexoxide	16056-72-7	-
531	5-oxo-L-proline, cadmium salt	16105-06-9	-
532	Cadmium propionate	16986-83-7	-
533	Cadmium hexafluorosilicate(2-)	17010-21-8	-

534	Bis(ethylenediamine)cadmium(2+)	18074 20 4	
	bis[dicyanoaurate(1-)]	189/4-20-4	-
535	Cadmium diphenolate	18991-05-4	-
536	Cadmium bis(dipentyldithiocarbamate)	19010-65-2	-
537	Cadmium disalicylate	19010-79-8	-
538	Cadmium hydroxide	21041-95-2	-
539	Cadmium methacrylate	24345-60-6	-
540	Cadmium epoxyoctadecanoate	26264-48-2	-
541	Cadmium toluate	27476-27-3	-
542	[[N,N'-ethylenebis[glycinato]](2-)-	20077 12 7	
	N,N',O,O']cadmium	299//-13-/	-
543	Cadmium isooctanoate	30304-32-6	-
544	Cadmium dodecylbenzenesulphonate	31017-44-4	-
545	Cadmium (1,1-dimethylethyl)benzoate	31215-94-8	-
546	Cadmium [R-(R*,R*)]-tartrate	34100-40-8	-
547	Cadmium didocosanoate	34303-23-6	-
548	Cadmium 3,5,5-trimethylhexanoate	36211-44-6	-
549	$C_{adminm}(2+)$ (B) 12 hydroxys at decomposite	29517 10 0	
	Cadmun(2^+) (K)-12-nydroxyoctadecanoate	3831/-19-0	-
550	Potassium [N.N-bis(carboxymethyl)glycinato(3-)-		
	N,O,O',O'']cadmate(1-)	49784-42-1	-
551	Bis[N,N-bis(carboxymethyl)glycinato(3-	50648-02-7	-
5.50		51000 (0.7	
552	Boric acid, cadmium salt	51222-60-7	-
553	Cadmium o-toluate	52337-78-7	-
554	Cadmium bis(4-cyclohexylbutyrate)	55700-14-6	-
555	Cadmium divalerate	56982-42-4	-
556	Cadmium sulfoselenide red	58339-34-7	-
557	Naphthenic acids, cadmium salts	61789-34-2	-
558	Cadmium neodecanoate	61951-96-0	-
559	Cadmium bis(heptadecanoate)	62149-56-8	-
560	Cadmium pentadecanoate	63400-09-9	-
561	(S)-dichloro[2-[[(2,3-		
	dihydroxypropoxy)hydroxyphosphinyl]oxy]triethy	64681-08-9	-
	lmethylammoniumato]cadmium		
562	Bis(propane-1,2-divldiamine-N,N')cadmium(2+)		
	bis[bis(cyano-C)aurate(1-)]	67906-19-8	-
563	Cadmium dilinoleate	67939-62-2	-
564	Tetrapotassium		
	[[[nitrilotris(methylene)]tris[phosphonato]](6-)-	67989-93-9	-

565	Cadmium m-toluate	68092-45-5	-
566	Fatty acids, C10-18, cadmium salts	68131-58-8	-
567	Fatty acids, C12-18, cadmium salts	68131-59-9	-
568	Benzyltriphenylphosphonium tetrachlorocadmate	68214-25-5	-
569	Pentapotassium hydrogen [[[ethylenebis[nitrilobis(methylene)]]tetrakis[phos phonato]](8-)]cadmate(6-)	68309-98-8	-
570	Cadmium sulfide (CdS), solid soln. with zinc sulfide, copper and lead-doped	68332-81-0	-
571	Fatty acids, C14-18, cadmium salts	68409-82-5	-
572	Cadmium, benzoate p-tert-butylbenzoate complexes	68478-53-5	-
573	Pyrochlore, bismuth cadmium ruthenium	68479-13-0	-
574	Cadmium sulfide (CdS), solid soln. with zinc sulfide, aluminum and cobalt and copper and silver-doped	68784-10-1	-
575	Barium cadmium calcium chloride fluoride phosphate, antimony and manganese-doped	68784-55-4	-
576	Fatty acids, tall-oil, cadmium salts	68855-80-1	-
577	Fatty acids, C8-18 and C18-unsatd., cadmium salts	68876-84-6	-
578	Cadmium sulfide (CdS), aluminum and copper- doped	68876-98-2	-
579	Cadmium sulfide (CdS), aluminum and silver- doped	68876-99-3	-
580	Cadmium sulfide (CdS), copper chloride-doped	68877-00-9	-
581	Cadmium sulfide (CdS), silver chloride-doped	68877-01-0	-
582	Cadmium sulfide (CdS), copper and lead-doped	68891-87-2	-
583	Fatty acids, tallow, hydrogenated, cadmium salts	68953-39-9	-
584	Resin acids and Rosin acids, cadmium salts	68956-81-0	-
585	Hydrogen [4-[(5-chloro-4-methyl-2- sulphophenyl)azo]-3-hydroxynaphthalene-2- carboxylato(3-)]cadmate(1-)	68966-97-2	-
586	Cadmium, dross	69011-69-4	-
587	Wastewater, cadmium sulfate electrolytic, acid	69012-21-1	-
588	Flue dust, cadmium-refining	69012-57-3	-
589	Calcines, cadmium residue	69029-63-6	-

590	Leach residues, cadmium-refining	69029-70-5	-
591	Residues, cadmium-refining	69029-77-2	-
592	Slimes and Sludges, cadmium-refining, oxidized	69029-90-9	-
593	Slimes and Sludges, cadmium sump tank	69029-91-0	-
594	Cadmium(2+) 12-hydroxyoctadecanoate	69121-20-6	-
595	Cadmium potassium 1- (hydroxyethylidene)bisphosphonate(1:2:1)	69190-99-4	-
596	Fatty acids, C12-18, barium cadmium salts	70084-75-2	-
597	Cadmium selenide (CdSe), solid soln. with cadmium sulphide	71243-75-9	-
598	(R)-12-hydroxyoleic acid, barium cadmium salt	71411-66-0	-
599	Tetra-µ-chlorodichlorobis[2-[[(2,3- dihydroxypropoxy)hydroxyphosphinyl]oxy]triethy lmethylammoniumato]tricadmium, stereoisomer	71861-27-3	-
600	Fatty acids, coco, cadmium salts	72869-63-7	-
601	Zircon, cadmium yellow	72968-34-4	-
602	Cadmium isononanoate	84696-56-0	-
603	Cadmium isooctadecanoate	84878-36-4	-
604	Cadmium tert-decanoate	84878-37-5	-
605	Cadmium bis(nonylphenolate)	84878-48-8	-
606	Cadmium bis(octylphenolate)	84878-51-3	-
607	Flue dust, lead-manufg., cadmium-rich	85117-02-8	-
608	Waste solids, cadmium-electrolysis, thallium-rich	85117-20-0	-
609	Fatty acids, C9-11-branched, cadmium salts	85586-15-8	-
610	Bis(5-oxo-L-prolinato-N1,O2)cadmium	85958-86-7	-
611	Bis(5-oxo-DL-prolinato-N1,O2)cadmium	85994-31-6	-
612	Benzenesulfonic acid, mono-C10-13-alkyl derivs., cadmium salts	90194-35-7	-
613	Benzoic acid, cadmium salt, basic	90218-85-2	-
614	Decanoic acid, branched, cadmium salts	90342-19-1	-
615	Hexanoic acid, 2-ethyl-, cadmium salt, basic	90411-62-4	-
616	Propanoic acid, cadmium salt, basic	90529-78-5	-
617	Cadmium zinc lithopone yellow	90604-89-0	-
618	Cadmium lithopone yellow	90604-90-3	-
619	Leach residues, cadmium cake	91053-44-0	-
620	Leach residues, zinc ore-calcine, cadmium-copper ppt.	91053-46-2	-
621	Fatty acids, castor-oil, hydrogenated, cadmium salts	91697-35-7	-

622	Fatty acids, C8-10-branched, cadmium salts	92257-06-2	-
623	Leach residues, zinc refining flue dust, cadmium-	02257 11 0	
	thallium ppt.	92237-11-9	-
624	Fatty acids, C9-13-neo-, cadmium salts	92704-12-6	-
625	Fatty acids, olive-oil, cadmium salts	92704-15-9	-
626	Fatty acids, peanut-oil, cadmium salts	92704-19-3	-
627	Fatty acids, rape-oil, cadmium salts	92704-24-0	-
628	Fatty acids C14-18 and C18-unsated branched		
	and linear hydrogenated cadmium salts	92797-28-9	-
	and inical, hydrogenated, cadmium saits		
629	Nonanoic acid, branched, cadmium salt	93686-40-9	-
630	Carbonic acid, cadmium salt	93820-02-1	-
631	Bis(2-ethylhexyl mercaptoacetato -O',S)cadmium	93858-50-5	-
632	Cadmium bis(o-nonylphenolate)	93894-07-6	-
633	Cadmium bis(p-nonylphenolate)	93894-08-7	-
634	Cadmium bis[p-(1,1,3,3-	02804 00 8	
	tetramethylbutyl)phenolate]	93094-09-0	-
635	Cadmium (Z)-hexadec-9-enoate	93894-10-1	-
636	Cadmium isodecanoate	93965-24-3	-
637	Cadmium bis(isoundecanoate)	93965-30-1	-
638	Cadmium dimethylhexanoate	93983-65-4	-
639	Cadmium tetrapentyl bis(phosphate)	94232-49-2	-
640	Cadmium isooctyl phthalate (1:2:2)	94247-16-2	-
641	Cadmium (1-ethylhexyl) phthalate (1:2:2)	94275-93-1	-
642	Cadmium octyl phthalate (1:2:2)	94275-94-2	-
643	Leach residues, cadmium-contg. flue dust	94551-70-9	-
644	Cadmium isohexadecanoate	95892-12-9	-
645	Cadmium diisobutyl dimaleate	97259-82-0	-
646	Zircon, cadmium orange	99749-34-5	-
647	Cadmium chloride phosphate (Cd5Cl(PO4)3),	100402-53-	
	manganese-doped	7	-
648	Flue dust, copper-lead blast furnace, cadmium-	100656-55-	
	indium-enriched	1	-
649	Dedecencie soid codmium selt hosis	101012-89-	
	Dodecanore acid, cadimum sait, basic	9	-
650	Ostadasanais asid and mium salt basis	101012-93-	
	Octadecanole acid, cadinium sait, basic	5	-
651	Octadecanoic acid, 12-hydroxy-, cadmium salt,	101012-94-	
	basic	6	-
652	Cadmium oxide (CdO), solid soln. with calcium	101356-00	
	oxide and titanium oxide (TiO2), praseodymium-	4	-
	doped	Т	

653	Cadmium selenide (CdSe), solid soln. with	101257 00	
	cadmium sulfide, zinc selenide and zinc sulfide,	101337-00-	-
	aluminum and copper-doped	0	
654	Cadmium selenide (CdSe), solid soln. with	101257 01	
	cadmium sulfide, zinc selenide and zinc sulfide,	101337-01-	-
	copper and manganese-doped	1	
655	Cadmium selenide (CdSe), solid soln. with	101257 02	
	cadmium sulfide, zinc selenide and zinc sulfide,	101337-02-	-
	europium-doped	2	
656	Cadmium selenide (CdSe), solid soln. with	101257 02	
	cadmium sulfide, zinc selenide and zinc sulfide,	101337-03-	-
	gold and manganese-doped	5	
657	Cadmium selenide (CdSe), solid soln. with	101257 04	
	cadmium sulfide, zinc selenide and zinc sulfide,	101337-04-	-
	manganese and silver-doped	4	
658	Cadmium oxide (CdO), solid soln. with	102110 30	
	magnesium oxide, tungsten oxide (WO3) and zinc	102110-30-	-
	oxide	5	
659	Silicic acid, zirconium salt, cadmium pigment-	102184-95-	
	encapsulated	2	-
660	Cadmium Acetate, Dihydrate	5743-04-4	-
661	cadmium sulphate hydrate (3:8)	7790-84-3	-
662	Cadmium (II) chloride monohydrate	35658-65-2	-
663	Cadmium perchlorate hexahydrate	10326-28-0	-
664	Cadmium chloride hydrate	654054-66-	_
		7	-
665	cadmium chloride, hydrate(2:5)	7790-78-5	-
666	Chloroethene	75-01-4	-
667	Chloroform	67-66-3	-
668	Cyclohexane	110-82-7	-
669	Di-u-oxo-di-n-butylstanniohydroxyborane /		
	Dibutyltin hydrogen borate C8H19BO3Sn (DBB)	75113-37-0	-
67 0			
670	Dichloromethane	75-09-2	-
671	Dusobutyl phthalate	84-69-5	-
672	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	-
673	Benzyl butyl phthalate (BBP)	85-68-7	-
674	Dibutyl phthalate (DBP)	84-74-2	-
675	Dimethyl fumarate (DMFu)	624-49-7	-
676	Ammonium polysulphide	9080-17-5	-
677	Ammonium sulphide	12135-76-1	-
678	Ammonium hydrogen sulphide	12124-99-1	-
679	Creosote oil; wash oil	61789-28-4	-

680	Tar acids, coal, crude; crude phenols	65996-85-2	-
681	Distillates (coal tar), upper; heavy anthracene oil	65996-91-0	-
682	Distillates (coal tar), naphthalene oils; naphthalene oil	84650-04-4	-
683	Creosote, wood	8021-39-4	-
684	Creosote oil, acenaphthene fraction; wash oil	90640-84-9	-
685	Low temperature tar oil, alkaline; extract residues (coal), low temperature coal tar alkaline	122384-78- 5	-
686	Creosote; wash oil	8001-58-9	-
687	Anthracene oil	90640-80-5	-
688	Nonylphenol C6H4(OH)C9H19	25154-52-3	-
689	Phenylmercury 2-ethylhexanoate	13302-00-6	-
690	Phenylmercury neodecanoate	26545-49-3	-
691	Phenylmercury propionate	103-27-5	-
692	Phenylmercury acetate	62-38-4	-
693	Phenylmercury octanoate	13864-38-5	-
694	o-Nitrobenzaldehyde	552-89-6	-
695	Soap bark powder (Quillaja saponaria) and its derivatives containing saponines	68990-67-0	-
696	Hexachloroethane	67-72-1	-
697	Lead	7439-92-1	-
698	Trilead-bis(carbonate)-dihydroxide 2PbCO3- Pb(OH)2	1319-46-6	-
699	Neutral anhydrous carbonate (PbCO3)	598-63-0	-
700	Lead sulphate PbSO4	7446-14-2	-
701	Sulphuric acid, lead salt Pbx SO4	15739-80-7	-
702	Mercury	7439-97-6	-
703	Methanol	67-56-1	-
704	4,4'-Methylenediphenyl diisocyanate	101-68-8	-
705	Methylenediphenyl diisocyanate (MDI)	26447-40-5	-
706	2,4'-Methylenediphenyl diisocyanate	5873-54-1	-
707	2,2'-Methylenediphenyl diisocyanate	2536-05-2	-
708	Monomethyl — tetrachlorodiphenyl methane	7(252 (0 (
	Trade name: Ugilec 141	/6253-60-6	-
709	Monomethyl-dibromo-diphenyl methane bromobenzylbromotoluene, mixture of isomers Trade name: DBBT	99688-47-8	-
710	Nickel	7440-02-0	-
711	Nonylphenol, ethoxylated	9016-45-9	-
712	4-Nonylphenol, ethoxylated	26027-38-3	-

713	Isononylphenol, ethoxylated	37205-87-1	-
714		127087-87-	
	4-Nonyiphenoi, branched, ethoxylated	0	-
715	Nonylphenol, branched, ethoxylated	68412-54-4	-
716	Octamethylcyclotetrasiloxane	556-67-2	-
717	Decamethylcyclopentasiloxane	541-02-6	-
718	Pentachloroethane	76-01-7	-
719	N2-benzyl pentachlorophenyl N2-carboxy-L-(2-	13673-51-3	_
	aminoglutaramate)	13073-31-3	-
720	Perchlorophenyl N-(benzyloxycarbonyl)-L-	13673-53-5	_
	isoleucinate	13073-33-3	-
721	Perchlorophenyl S-benzyl-N-	13673-54-6	_
	(benzyloxycarbonyl)-L-cysteinate	13073-34-0	-
722	Pentachlorophenol	87-86-5	-
723	Sodium pentachlorophenolate	131-52-2	-
724	Perchlorophenyl 5-oxo-L-prolinate	28990-85-4	-
725	Pentachlorophenyl laurate	3772-94-9	-
726	Potassium pentachlorophenolate	7778-73-6	-
727	Dentachlanonhanvil N [[(4		
	methovymbary/methovy/loorbary/ll L corinete	23234-97-1	-
	methoxyphenyl)methoxyjcaroonylj-L-sermate		
728	Zinc bis(pentachlorophenolate)	2917-32-0	-
728 729	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls	2917-32-0	-
728 729	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB)	2917-32-0 59536-65-1	-
728 729 730	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB) Benzo[a]pyrene (BaP)	2917-32-0 59536-65-1 50-32-8	-
728 729 730 731	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB) Benzo[a]pyrene (BaP) Dibenzo[a,h]anthracene (DBAhA)	2917-32-0 59536-65-1 50-32-8 53-70-3	- - - -
728 729 730 731 732	Zinc bis(pentachlorophenolate)Polybromobiphenyls, Polybrominatedbiphenyls(PBB)Benzo[a]pyrene (BaP)Dibenzo[a,h]anthracene (DBAhA)Benzo[a]anthracene (BaA)	2917-32-0 59536-65-1 50-32-8 53-70-3 56-55-3	- - - - -
728 729 730 731 732 733	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB) Benzo[a]pyrene (BaP) Dibenzo[a,h]anthracene (DBAhA) Benzo[a]anthracene (BaA) Chrysen (CHR)	2917-32-0 59536-65-1 50-32-8 53-70-3 56-55-3 218-01-9	- - - - - -
728 729 730 731 732 733 734	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB) Benzo[a]pyrene (BaP) Dibenzo[a,h]anthracene (DBAhA) Benzo[a]anthracene (BaA) Chrysen (CHR) Benzo[j]fluoranthene (BjFA)	2917-32-0 59536-65-1 50-32-8 53-70-3 56-55-3 218-01-9 205-82-3	- - - - - - - -
728 729 730 731 732 733 734 735	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB) Benzo[a]pyrene (BaP) Dibenzo[a,h]anthracene (DBAhA) Benzo[a]anthracene (BaA) Chrysen (CHR) Benzo[j]fluoranthene (BjFA) Benzo[b]fluoranthene (BbFA)	2917-32-0 59536-65-1 50-32-8 53-70-3 56-55-3 218-01-9 205-82-3 205-99-2	- - - - - - - - -
728 729 730 731 732 733 734 735 736	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB) Benzo[a]pyrene (BaP) Dibenzo[a,h]anthracene (DBAhA) Benzo[a]anthracene (BaA) Chrysen (CHR) Benzo[j]fluoranthene (BjFA) Benzo[b]fluoranthene (BbFA) Benzo[k]fluoranthene (BkFA)	2917-32-0 59536-65-1 50-32-8 53-70-3 56-55-3 218-01-9 205-82-3 205-99-2 207-08-9	- - - - - - - - - - - - -
728 729 730 731 732 733 734 735 736 737	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB) Benzo[a]pyrene (BaP) Dibenzo[a,h]anthracene (DBAhA) Benzo[a]anthracene (BaA) Chrysen (CHR) Benzo[j]fluoranthene (BjFA) Benzo[b]fluoranthene (BbFA) Benzo[k]fluoranthene (BkFA) Benzo[e]pyrene (BeP)	2917-32-0 59536-65-1 50-32-8 53-70-3 56-55-3 218-01-9 205-82-3 205-99-2 207-08-9 192-97-2	- - - - - - - - - - - - - - -
728 729 730 731 732 733 734 735 736 737 738	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB) Benzo[a]pyrene (BaP) Dibenzo[a,h]anthracene (DBAhA) Benzo[a]anthracene (BaA) Chrysen (CHR) Benzo[j]fluoranthene (BjFA) Benzo[b]fluoranthene (BbFA) Benzo[k]fluoranthene (BkFA) Benzo[e]pyrene (BeP) Di-n-octyl phthalate (DNOP)	2917-32-0 59536-65-1 50-32-8 53-70-3 56-55-3 218-01-9 205-82-3 205-99-2 207-08-9 192-97-2 117-84-0	- - - - - - - - - - - - - - - - - - -
728 729 730 731 732 733 734 735 736 737 738 739	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB) Benzo[a]pyrene (BaP) Dibenzo[a,h]anthracene (DBAhA) Benzo[a]anthracene (BaA) Chrysen (CHR) Benzo[j]fluoranthene (BjFA) Benzo[b]fluoranthene (BbFA) Benzo[k]fluoranthene (BkFA) Benzo[e]pyrene (BeP) Di-n-octyl phthalate (DNOP) Di-"isodecyl" phthalate (DIDP)	2917-32-0 59536-65-1 50-32-8 53-70-3 56-55-3 218-01-9 205-82-3 205-99-2 207-08-9 192-97-2 117-84-0 26761-40-0	- - - - - - - - - - - - - - - - - - -
728 729 730 731 732 733 734 735 736 737 738 739 740	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB) Benzo[a]pyrene (BaP) Dibenzo[a,h]anthracene (DBAhA) Benzo[a]anthracene (BaA) Chrysen (CHR) Benzo[j]fluoranthene (BjFA) Benzo[b]fluoranthene (BbFA) Benzo[k]fluoranthene (BkFA) Benzo[e]pyrene (BeP) Di-n-octyl phthalate (DNOP) Di-"isodecyl" phthalate (DIDP) 1,2-Benzenedicarboxylic acid, di-C9-11-branched	2917-32-0 59536-65-1 50-32-8 53-70-3 56-55-3 218-01-9 205-82-3 205-99-2 207-08-9 192-97-2 117-84-0 26761-40-0	- - - - - - - - - - - - - - - - - - -
728 729 730 731 732 733 734 735 736 737 738 739 740	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB) Benzo[a]pyrene (BaP) Dibenzo[a,h]anthracene (DBAhA) Benzo[a]anthracene (BaA) Chrysen (CHR) Benzo[j]fluoranthene (BjFA) Benzo[b]fluoranthene (BbFA) Benzo[k]fluoranthene (BkFA) Benzo[e]pyrene (BeP) Di-n-octyl phthalate (DNOP) Di-"isodecyl" phthalate (DIDP) 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	2917-32-0 59536-65-1 50-32-8 53-70-3 56-55-3 218-01-9 205-82-3 205-99-2 207-08-9 192-97-2 117-84-0 26761-40-0 68515-49-1	- - - - - - - - - - - - - - - - - - -
728 729 730 731 732 733 734 735 736 737 738 739 740 741	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB) Benzo[a]pyrene (BaP) Dibenzo[a,h]anthracene (DBAhA) Benzo[a]anthracene (BaA) Chrysen (CHR) Benzo[j]fluoranthene (BjFA) Benzo[b]fluoranthene (BbFA) Benzo[k]fluoranthene (BkFA) Benzo[e]pyrene (BeP) Di-n-octyl phthalate (DNOP) Di-"isodecyl" phthalate (DIDP) 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich 1,2-Benzenedicarboxylic acid, di-C8-10-branched	2917-32-0 59536-65-1 50-32-8 53-70-3 56-55-3 218-01-9 205-82-3 205-99-2 207-08-9 192-97-2 117-84-0 26761-40-0 68515-49-1	
728 729 730 731 732 733 734 735 736 737 738 739 740 741	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB) Benzo[a]pyrene (BaP) Dibenzo[a,h]anthracene (DBAhA) Benzo[a]anthracene (BaA) Chrysen (CHR) Benzo[j]fluoranthene (BjFA) Benzo[b]fluoranthene (BbFA) Benzo[k]fluoranthene (BkFA) Benzo[e]pyrene (BeP) Di-n-octyl phthalate (DNOP) Di-"isodecyl" phthalate (DIDP) 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	2917-32-0 59536-65-1 50-32-8 53-70-3 56-55-3 218-01-9 205-82-3 205-99-2 207-08-9 192-97-2 117-84-0 26761-40-0 68515-49-1 68515-48-0	
728 729 730 731 732 733 734 735 736 737 738 739 740 741 742	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB) Benzo[a]pyrene (BaP) Dibenzo[a,h]anthracene (DBAhA) Benzo[a]anthracene (BaA) Chrysen (CHR) Benzo[j]fluoranthene (BjFA) Benzo[b]fluoranthene (BbFA) Benzo[k]fluoranthene (BkFA) Benzo[e]pyrene (BeP) Di-n-octyl phthalate (DNOP) Di-"isodecyl" phthalate (DIDP) 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich Di-"isononyl" phthalate (DINP)	2917-32-0 59536-65-1 50-32-8 53-70-3 56-55-3 218-01-9 205-82-3 205-99-2 207-08-9 192-97-2 117-84-0 26761-40-0 68515-49-1 68515-48-0 28553-12-0	
728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB) Benzo[a]pyrene (BaP) Dibenzo[a,h]anthracene (DBAhA) Benzo[a]anthracene (BaA) Chrysen (CHR) Benzo[j]fluoranthene (BjFA) Benzo[b]fluoranthene (BbFA) Benzo[k]fluoranthene (BkFA) Benzo[e]pyrene (BeP) Di-n-octyl phthalate (DNOP) Di-"isodecyl" phthalate (DIDP) 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich Di-"isononyl" phthalate (DINP) Toluene	2917-32-0 59536-65-1 50-32-8 53-70-3 56-55-3 218-01-9 205-82-3 205-99-2 207-08-9 192-97-2 117-84-0 26761-40-0 68515-49-1 68515-48-0 28553-12-0 108-88-3	
728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744	Zinc bis(pentachlorophenolate) Polybromobiphenyls, Polybrominatedbiphenyls (PBB) Benzo[a]pyrene (BaP) Dibenzo[a,h]anthracene (DBAhA) Benzo[a]anthracene (BaA) Chrysen (CHR) Benzo[j]fluoranthene (BjFA) Benzo[b]fluoranthene (BbFA) Benzo[k]fluoranthene (BkFA) Benzo[e]pyrene (BeP) Di-n-octyl phthalate (DNOP) Di-"isodecyl" phthalate (DIDP) 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich Di-"isononyl" phthalate (DINP) Toluene Trichlorobenzene	2917-32-0 59536-65-1 50-32-8 53-70-3 56-55-3 218-01-9 205-82-3 205-99-2 207-08-9 192-97-2 117-84-0 26761-40-0 68515-49-1 68515-49-1 68515-48-0 28553-12-0 108-88-3 120-82-1	

746	Tris(aziridinyl)phosphinoxide	545-55-1	-
747	Butyl bromoacetate	18991-98-5	-
748	Ethyl bromoacetate	105-36-2	-
749	Methyl bromoacetate	96-32-2	-
750	Propyl bromoacetate	35223-80-4	-

S. No.	Authorities with legal	Duties and corresponding Rule		
	backing			
(1)	(2)	(3)		
1.	 (a) Chief Inspector of Dock Safety appointed under the Dock Workers (Safety, Health and Welfare) Act, 1986 within the Dock area. (b) Chief Inspector of Mines appointed under the Mines Act, 1952 within the Mine area. (c) Atomic Energy Regulatory Board appointed under the Atomic Energy Act, 1972. (d) Chief Safety Officer appointed with concurrence of the Division for any Industrial Pocket notified under any central or state legislation. (e) Chairman CBIC for Customs Warehouses. (f) Chief Inspector of Factories appointed under the Factories Act, 1948 for areas for not covered under (a) to (e) above. 	 Enforcement of direction and procedures in respect of industrial installations and isolated storages covered under their respective statutes and dealing with Hazardous Chemicals within their jurisdictions – (i) Approval and notification of Industrial Activities and Site Safety Report as per Rules 21, 22 and 23; (ii) Safety Audit Report as per Rules 24 to 26; (iii) Issuance of Improvement Notice under Rule 35; (iv) Notification of Chemica Accidents as per Rule 31; (v) Acceptance of On-site Emergency plans as per Rule 29; (vi) Preparation of off-site emergency plans in consultation with Distric Collector or District Emergency Authority in accordance with Rule 30; (vii) Analysis of a major acciden under Rule 32. 		
2.	Chief Inspector of Dock Safety appointed under the Dock Workers (Safety, Health and Welfare) Act, 1986.	All functions under Rule 27.		
4.	Chief Controller of Explosives appointment under the Explosive Act, 1884.	Enforcement of all directions and procedures as mentioned in column (3) of Serial .No. 1 above, in respect of Industrial installations and isolated storages dealing with Hazardous Chemicals which are outside the jurisdiction of the Concerned Authorities set out in column (2) of		

Schedule III – Concerned Authorities

		Serial No. 1 above and for all pipelines including
		inter-state pipelines.
5.	The Chemical Regulatory	Enforcement of Chapter III and Chapter V, as
	Division.	specified in Rule 36(1).
6.	State Pollution Control	Enforcement of Rule 21.
	Boards	

S. No.	Name	CAS Number
1.	Water, distilled, conductivity or of similar purity – H ₂ O	7732-18-5
2.	Starch	9005-25-8
3.	Fatty acids, coco, Me esters	61788-59-8
4.	Cellulose pulp	65996-61-4
5.	Syrups, corn, dehydrated	68131-37-3
6.	Substances which result from a chemical reaction that occurs incidental to exposure of another substance or article to environmental factors such as air, moisture, microbial organisms or sunlight	
7.	Substances which result from a chemical reaction that occurs incidental to storage of another substance, mixture or article	
8.	Substances which result from a chemical reaction occurring upon end use of other substances, mixtures or articles, and which are not themselves manufactured, imported, or placed on the market.	
9.	Substances which occur in nature, if they are not chemically modified. For example, Minerals, ores, ore concentrates, raw and processed natural gas, crude oil, coal	
10.	Compost and biogas; Charcoal	
11.	Hydrogen and atmospheric Oxygen, Nitrogen and Noble gases	
12.	By-products, unless they are Imported or Placed in the Indian Market	
13.	Glass, Ceramic Fritz	
14.	Following Substances if not modified chemically: Liquified Petroleum Gas, Natural Gas Condensates, cement clinker, magnesium, coke	
15.	The following Substances when not chemically modified and obtained from natural sources, unless they fall within the definition of Priority Substances: Vegetable fats, oils and waxes, animal fats, oils and waxes, fatty acids from C_6 to C_{24} and their potassium, sodium, calcium and magnesium salts and glycerol	

Schedule IV - Substances Exempt for the purposes of Chapter III and V

Schedule V - Information to be provided for Notification

- 1. Details of Notifier:
 - a. Name, address, phone, email of the Notifier
 - b. Name, address, phone, email of the person authorised to submit Notification
 - c. Details of foreign manufacturer, if the Notifier is an Importer or Authorised Representative
 - d. Location of the production and own use site(s), as appropriate
- 2. List main constituents of the substance with 10% (w/w) or more concentration

S.No.	IUPAC Name	Common Name	CAS No.	Molecular structure	Isomer	% age Conc.

3. List all impurities with more than 1.0% but less than 10% (w/w) concentration

- 4. For substances of Unknown or Variable composition, Complex reaction products or Biological materials (UVCB), give the following details:
 - a. Structural representation of the constituents
 - b. Reaction scheme (including the identity of the reactants and the reaction type)
 - c. Process output (including identity of the precursors, the technology (method of preparation; process terms) and the typical composition)
- 5. Chemical Structural Details
 - a. Molecular wt.
 - b. Simplified Molecular Input Line Entry System (SMILES)
 - c. Information on optical activity and typical ratio of (stereo) isomers (if applicable and appropriate)
 - d. Spectral data:
 - i) High Performance Liquid Chromatography or Gas Chromatography or Gas Chromatography Mass Spectrometry or Liquid Chromatography Mass Spectrometry
 - ii) Infra Red spectra
 - iii) Ultra Violet-Vis Spectrophotometer spectra
 - iv) Nuclear Magnetic Resonance
- 6. Hazard Classification of the Substance (according to eighth revision of UN-GHS)
- 7. Chemical uses
- 8. Name of known Downstream Users (at least top 3; will be kept confidential)
- 9. Actual quantity per annum in TPA (will be kept confidential under all circumstances)
- 10. Maximum Storage Capacity/Maximum quantity stored

(The information contained in the Notification must be based on test reports from NABL accredited labs or GLP labs or any other Published authentic study report.)

Sr. No.	Chemical Name	CAS No.	Category
1	Phosgene		Restricted

Schedule VI - Restricted or Prohibited Substances

Schedule VII - Contents of Technical Dossier

- 1. Registrant Details:
 - a) Name of Legal Entity
 - b) Name of Submitter
 - c) Legal Representative of the Registrant
 - d) Contact details address; phone; email
 - e) Location of site of production or use
 - f) Company Registration Number, if applicable
 - g) GST Number, if applicable
 - h) Plant site code, if applicable
- 2. Chemical identifiers
 - a) Chemical Name: IUPAC Name or Common/Trade Name or CAS Name
 - b) Chemical Numbers: CAS Number and IN Number / Notification number
 - c) Purity
 - d) Details of all impurities contained in concentrations of greater than 0.1% (w/w)
 - e) Nature of impurities, including isomers and by-products
 - f) Nature and order of magnitude (... ppm, ... %) of any additives (e.g. stabilising agents or inhibitors)
- 3. Chemical Structural Details
 - a) Molecular wt.
 - b) SMILES
 - c) Molecular and structural formula
 - d) Information on optical activity and typical ratio of (stereo) isomers (if applicable and appropriate)
 - e) Spectral data:
 - i) High Performance Liquid Chromatography or Gas Chromatography or Gas Chromatography Mass Spectrometry or Liquid Chromatography Mass Spectrometry
 - ii) Infra Red spectra
 - iii) Ultra Violet-Vis Spectrophotometer spectra
 - iv) Nuclear Magnetic Resonance
 - v) Mass spectrum
 - f) Type of substance mono, multi, 'Unknown or Variable Composition, Complex Products or of Biological Methods'.
 - g) Description of the analytical methods or the appropriate bibliographical references for the identification of the substance and, where appropriate, for the identification of impurities and additives. This information shall be sufficient to allow the methods to be reproduced.
- 4. Identified Chemical uses
 - a) The calendar year of the registration

- b) An indication of the tonnage used for his own use(s)
- c) Form (substance, preparation or article) and/or physical state under which the substance is made available to downstream users.
- d) Concentration or concentration range of the substance in preparations made available to downstream users and quantities of the substance in articles made available to downstream users.
- e) Brief general description of the identified use(s)
- f) Information on waste quantities and composition of waste resulting from manufacture of the substance, the use in articles and identified uses
- g) description of the manufacturing process and
- h) all identified uses that the Registrant wants to cover in accordance with use descriptors. (These uses shall be included in the Exposure Scenario (1 10 TPA) and Chemical Safety Report as the case may be.)
- 5. Classification and labelling information
 - a) The hazard classification of the substance(s),
 - b) The resulting hazard label for the substance(s)
 - c) Specific concentration limits, where applicable
- 6. Robust study summaries
- 7. Main use category:
 - a) industrial use and/or
 - b) professional use and/or
 - c) consumer use
- 8. Specification for industrial and professional use:
 - a) used in closed system and/or
 - b) use resulting in inclusion into or onto matrix and/or
 - c) non-dispersive use and/or
 - d) dispersive use
- 9. Significant route(s) of exposure:
 - Human exposure:
 - a) oral and/or
 - b) dermal and/or
 - c) inhalatory
- 10. Environmental exposure
 - a) water and/or
 - b) air and/or
 - c) solid waste and/or
 - d) soil
- 11. Pattern of exposure:
 - a) accidental/infrequent and/or
 - b) occasional and/or
 - c) continuous/frequent

Schedule VIII - Format for Chemical Safety Report

Part I

1. Summary of risk management measures

- 2. Declaration that risk management measures are implemented
- 3. Declaration that risk management measures are communicated

Part II

1. Identity of the substance and physical and chemical properties

- 2. Manufacture and uses
- 2.1. Manufacture
- 2.2. Identified uses
- 2.3. Uses advised against
- 3. Classification and labelling
- 4. Environmental fate properties
 - 4.1. Degradation
 - 4.2. Environmental distribution
 - 4.3. Bioaccumulation
 - 4.4. Secondary Poisoning
- 5. Human health hazard assessment
 - 5.1. Toxicokinetics (absorption, metabolism, distribution and elimination)
 - 5.2. Acute toxicity
 - 5.3. Irritation
 - 5.3.1. Skin
 - 5.3.2. Eye
 - 5.3.3. Respiratory Tract
 - 5.4. Corrosivity
 - 5.5. Sensitisation
 - 5.5.1. Skin
 - 5.5.2. Respiratory system
 - 5.6. Repeated dose toxicity
 - 5.7. Mutagenicity
 - 5.8. Carcinogenicity
 - 5.9. Toxicity for reproduction
 - 5.9.1. Effects on fertility
 - 5.9.2. Developmental Toxicity
 - 5.10. Other effects
 - 5.11. Derivation of Derived No-Effect Level(s) (DNELs)
- 6. Human health hazard assessment of physicochemical properties
 - 6.1. Explosivity
 - 6.2. Flammability
 - 6.3. Oxidising potential
- 7. Environmental hazard assessment

- 7.1. Aquatic Compartment (including sediment)
- 7.2. Terrestrial Compartment
- 7.3. Atmospheric Compartment
- 7.4. Microbiological Activity in Sewage Treatment Systems
- 7.5. Derivation of Predicted No-Effect Concentration (PNEC)

8. Persistent, Bioaccumulative and Toxic (PBT) and very Persistent very Bioaccumulative (vPvB) assessment

9. Exposure assessment

- 9.1. [Title of Exposure Scenario 1]
 - 9.1.1. Exposure Scenario
 - 9.1.2. Exposure Estimation
- 9.2. [Title of Exposure Scenario 2]
 - 9.2.1. Exposure Scenario
 - 9.2.2. Exposure Estimation [etc.]
- 10. Risk characterisation
 - 10.1. [Title of Exposure Scenario 1]
 - 10.1.1. Human Health
 - 10.1.1.1. Workers
 - 10.1.1.2. Consumers
 - 10.1.1.3. Indirect exposure to humans via the environment
 - 10.1.2. Environment
 - 10.1.2.1. Aquatic Compartment (incl. Sediment)
 - 10.1.2.2. Terrestrial Compartment
 - 10.1.2.3. Atmospheric Compartment
 - 10.1.2.4. Microbiological Activity in Sewage Treatment Systems
 - 10.2. [Title of Exposure Scenario 2]
 - 10.2.1. Human Health
 - 10.2.1.1. Workers
 - 10.2.1.2. Consumers
 - 10.2.1.3. Indirect exposure to humans via the environment
 - 10.2.2. Environment
 - 10.2.2.1. Aquatic Compartment (incl. Sediment)
 - 10.2.2.2. Terrestrial Compartment
 - 10.2.2.3. Atmospheric Compartment
 - 10.2.2.4. Microbiological Activity in Sewage Treatment Systems

(If desired, Sections 9 and 10 may be combined into one Section without loss of information)

Schedule IX – Safety Data Sheet

The safety data sheet shall include the following 16 headings in the given sequence and in addition the subheadings are also listed; pictograms, hazard statements, warning and other relevant information are based upon the UN-GHS classification criteria.

Section 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
- 1.3. Details of the supplier of the safety data sheet
- 1.4. Emergency telephone number

Section 2: Hazards identification

- 2.1. Classification of the substance or mixture
- 2.2. Label elements
- 2.3. Other hazards

Section 3: Composition/information on ingredients

- 3.1. Substances
- 3.2. Mixtures

Section 4: First aid measures

- 4.1. Description of first aid measures
- 4.2. Most important symptoms and effects, both acute and delayed
- 4.3. Indication of any immediate medical attention and special treatment needed

Section 5: Fire fighting measures

- 5.1. Extinguishing media
- 5.2. Special hazards arising from the substance or mixture
- 5.3. Advice for fire fighters

Section 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
- 6.2. Environmental precautions
- 6.3. Methods and material for containment and cleaning up
- 6.4. Reference to other sections

Section 7: Handling

- 7.1. Precautions for safe handling
- 7.2. Conditions for safe storage, including any incompatibilities
- 7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

- 8.1. Control parameters
- 8.2. Exposure controls

Section 9: Physical and chemical properties

- 9.1. Information on basic physical and chemical properties
- 9.2. Other information

Section 10: Stability and reactivity

- 10.1. Reactivity
- 10.2. Chemical stability
- 10.3. Possibility of hazardous reactions

- 10.4. Conditions to avoid
- 10.5. Incompatible materials
- 10.6. Hazardous decomposition products

Section 11: Toxicological information

11.1. Information on toxicological effects

Section 12: Ecological information

- 12.1. Toxicity
- 12.2. Persistence and degradability
- 12.3. Bioaccumulative potential
- 12.4. Mobility in soil
- 12.5. Results of PBT and vPvB assessment
- 12.6. Other adverse effects
- 12.7 Other Information

Section 13: Disposal considerations

13.1. Waste treatment methods

Section 14: Transport information

- 14.1. UN number
- 14.2. UN proper shipping name
- 14.3. Transport hazard class(es)
- 14.4. Packing group
- 14.5. Environmental hazards
- 14.6. Special precautions for user
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical safety assessment

Section 16: Legal Status of Substance

Information on legal status of the Substance in other jurisdictions, i.e. specifically information on whether the Substance has been restricted or prohibited under any other laws for the time being in force, or under any other jurisdiction.

Section 17: Other information

Including information on preparation and revision of Safety Data Sheet, sources of information.

Schedule X – Hazardous Chemicals

Part I Major Accident Hazard Criteria

(a) *Toxic Chemicals*: Chemicals having the following values of acute toxicity and which owing to their physical and chemical properties, are capable of producing major accident hazards:

S. No.	Toxicity	Oral toxicity	Dermal toxicity	Inhalation toxicity
		LD ₅₀ (mg/kg)	LD ₅₀ (mg/kg)	LC ₅₀ (mg/m ³)
1.	Extremely toxic	Less than 5	Less than 40	Less than 0.5
2.	Highly toxic	5-50	40-200	0.5-2.0
3.	Toxic	50-200	200-1000	2-10

(b) *Flammable Chemicals:*

(i) **Flammable Gases:** Gases which at 20°C and at standard atmospheric pressure of 101.3KPa are :-

Either

- (a) ignitable when in a mixture of 13 percent or less by volume with air; or
- (b) have a flammable range with mixture of air of at least 12 percentage points regardless of the lower flammable limits.

Note: The flammability shall be determined by tests or by calculation in accordance with methods adopted by International Standards Organization ISO Number 10156 of 1990 or by Bureau of Indian Standard ISI Number 1446 of 1985.

- (ii) *Extremely Flammable Liquids*: liquids which have flash point lower than or equal to 23°C and boiling point less than 35°C.
- (iii) *Very Highly Flammable Liquids*:-liquids which have a flash point lower than or equal to 23°C and initial boiling point higher than 35°C.
- (iv) *Highly Flammable Liquids*: liquids which have a flash point lower than or equal to 60°C but higher than 23°C.
- (v) *Flammable Liquids*: liquids which have a flash point higher than 60°C but lower than 90°C.

(c) *Explosives*: explosives mean a solid or liquid or pyrotechnic substance (or a mixture of substances) or an article;

Either

- (a) which is in itself capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to surroundings;
 - or
- (b) which is designed to produce an effect by heat, light, sound, gas or smoke or a combination of these as the result of non-detonative selfsustaining exothermic chemical reaction

Part II List Of Hazardous Chemicals

S.N. NAME OF HAZARDOUS CHEMICALS

- 1. Acetaldehyde
- 2. Acetic acid
- 3. Acetic anhydride
- 4. Acetone
- 5. Acetone cyanohydrin
- 6. Acetone thiosemicarbazide
- 7. Acetonitrile
- 8. Acetylene
- 9. Acetylene tetra chloride
- 10. Acrolein
- 11. Acrylamide
- 12. Acrylonitrile
- 13. Adiponitrile
- 14. Aldicarb
- 15. Aldrin
- 16. Allyl alcohol
- 17. Allyl amine
- 18. Allyl chloride
- 19. Aluminium (powder)
- 20. Aluminium azide
- 21. Aluminium borohydride
- 22. Aluminium chloride
- 23. Aluminium fluoride
- 24. Aluminium phosphide

S.N. NAME OF HAZARDOUS CHEMICALS

- 25. Amino diphenyl
- 26. Amino pyridine
- 27. Aminophenol-2
- 28. Aminopterin
- 29. Amiton
- 30. Amiton dialate
- 31. Ammonia
- 32. Ammonium chloro platinate
- 33. Ammonium nitrate
- 34. Ammonium nitrite
- 35. Ammonium picrate
- 36. Anabasine
- 37. Aniline
- 38. Aniline2,4, 6-Trimethyl
- 39. Anthraquinone
- 40. Antimony pentafluoride
- 41. Antimycin A
- 42. ANTU (<u>Alpha-</u> <u>Naphthylthiourea</u>)
- 43. Arsenic pentoxide
- 44. Arsenic trioxide
- 45. Arsenous trichloride
- 46. Arsine
- 47. Asphalt

- 48. Azinpho-ethyl
- 49. Azinphos methyl
- 50. Bacitracin
- 51. Barium azide
- 52. Barium nitrate
- 53. Barium nitride
- 54. Benzal chloride
- 55. Benzenamine,3-Trifluoromethyl
- 56. Benzene
- 57. Benzene sulfonyl chloride
- 58. Benzene. 1-(chloromethyl)-4 Nitro
- 59. Benzene arsenic acid
- 60. Benzidine
- 61. Benzidine salts
- 62. Benzimidazole. 4, 5-Dichloro-2 (Trifluoromethyl)
- 63. Benzoquinone-P
- 64. Benzotrichloride
- 65. Benzoyl chloride
- 66. Benzoyl peroxide
- 67. Benzyl chloride
- 68. Beryllium (Powder)
- 69. Bicyclo (2, 2, 1) Heptane -2- carbonitrile
- 70. Biphenyl
- 71. Bis (2-Chloroethyl) sulphide
- 72. Bis (Chloromethyl) Ketone
- 73. Bis (Tert-butyl peroxy) cyclohexane
- 74. Bis (Terbutylperoxy) butane
- 75. Bis(2,4, 6-Trinitrophenylamine)
- 76. Bis (Chloromethyl) Ether
- 77. Bismuth and compounds
- 78. Bisphenol-A
- 79. Bitoscanate
- 80. Boron Powder
- 81. Boron trichloride

- 82. Boron trifluoride
- 83. Boron trifluoride comp. With methylether, 1:1
- 84. Bromine
- 85. Bromine pentafluoride
- 86. Bromo chloro methane
- 87. Bromodialone
- 88. Butadiene
- 89. Butane
- 90. Butanone-2
- 91. Butyl amine tert
- 92. Butyl glycidyl ether
- 93. Butyl isovalerate
- 94. Butyl peroxymaleate tert
- 95. Butyl vinyl ether
- 96. Butyl-n-mercaptan
- 97. C.I.Basic green
- 98. Cadmium oxide
- 99. Cadmium stearate
- 100. Calcium arsenate
- 101. Calcium carbide
- 102. Calcium cyanide
- 103. Camphechlor (Toxaphene)
- 104. Cantharidin
- 105. Captan
- 106. Carbachol chloride
- 107. Carbaryl
- 108. Carbofuran (Furadan)
- 109. Carbon tetrachloride
- 110. Carbon disulphide
- 111. Carbon monoxide
- 112. Carbonphenothion
- 113. Carvone
- 114. Cellulose nitrate
- 115. Chloroacetic acid
- 116. Chlordane
- 117. Chlorofenvinphos
- 118. Chlorinated benzene
- 119. Chlorine
- 120. Chlorine oxide
- 121. Chlorine trifluoride
- 122. Chlormephos
- 123. Chlormequat chloride
- 124. Chloroacetal chloride

- 125. Chloroacetaldehyde
- 126. Chloroaniline -2
- 127. Chloroaniline -4
- 128. Chlorobenzene
- 129. Chloroethyl chloroformate
- 130. Chloroform
- 131. Chloroformyl morpholine
- 132. Chloromethane
- 133. Chloromethyl methyl ether
- 134. Chloronitrobenzene
- 135. Chlorophacinone
- 136. Chlorosulphonic acid
- 137. Chlorothiophos
- 138. Chloroxuron
- 139. Chromic acid
- 140. Chromic chloride
- 141. Chromium powder
- 142. Cobalt carbonyl
- 143. Cobalt Nitrilmethylidyne compound
- 144. Cobalt (Powder)
- 145. Colchicine
- 146. Copper and Compounds
- 147. Copperoxychloride
- 148. Coumafuryl
- 149. Coumaphos
- 150. Coumatetralyl
- 151. Crimidine
- 152. Crotenaldehyde
- 153. Crotonaldehyde
- 154. Cumene
- 155. Cyanogen bromide
- 156. Cyanongen iodide
- 157. Cyanophos
- 158. Cyanothoate
- 159. Cyanuric fluoride
- 160. Cyclo hexylamine
- 161. Cyclohexane
- 162. Cyclohexanone
- 163. Cycloheximide
- 164. Cyclopentadiene
- 165. Cyclopentane

- 166. Cyclotetramethylenetetranitr amine
- 167. Cyclotrimethylenetrinnitra mine
- 168. Cypermethrin
- 169. DDT
- 170. Decaborane (1:4)
- 171. Demeton
- 172. Demeton S-Methyl
- 173. Di-n-propyl peroxydicarbonate (Conc = 80%)
- 174. Dialifos
- 175. Diazodinitrophenol
- 176. Dibenzyl peroxydicarbonate (Conc>= 90%)
- 177. Diborane
- 178. Dichloroacetylene
- 179. Dichlorobenzalkonium chloride
- 180. Dichloroethyl ether
- 181. Dichloromethyl phenylsilane
- 182. Dichlorophenol 2, 6
- 183. Dichlorophenol 2, 4
- 184. Dichlorophenoxy acetic acid
- 185. Dichloropropane -2, 2
- 186. Dichlorosalicylic acid-3, 5
- 187. Dichlorvos (DDVP)
- 188. Dicrotophos
- 189. Dieldrin
- 190. Diepoxy butane
- 191. Diethyl carbamazine citrate
- 192. Diethyl chlorophosphate
- 193. Diethyl ethtanolamine
- 194. Diethyl peroxydicarbonate (Conc=30%)
- 195. Diethyl phenylene diamine
- 196. Diethylamine
- 197. Diethylene glycol

- 198. Diethylene glycol dinitrate
- 199. Diethylene triamine
- 200. Diethleneglycol butyl ether
- 201. Diglycidyl ether
- 202. Digitoxin
- 203. Dihydroperoxypropane (Conc >=30%)
- 204. Diisobutyl peroxide
- 205. Dimefox
- 206. Dimethoate
- 207. Dimethyl dichlorosilane
- 208. Dimethyl hydrazine
- 209. Dimethyl nitrosoamine
- 210. Dimethyl P phenylene diamine
- 211. Dimethyl phosphoramidi cyanidic acid (TABUM)
- 212. Dimethylphosphorochloridot hioate
- 213. Dimethyl sulfolane (DMS)
- 214. Dimethyl sulphide
- 215. Dimethylamine
- 216. Dimethylaniline
- 217. Dimethylcarbonyl chloride
- 218. Dimetilan
- 219. Dinitro O-cresol
- 220. Dinitrophenol
- 221. Dinitrotoluene
- 222. Dinoseb
- 223. Dinoterb
- 224. Dioxane-p
- 225. Dioxathion
- 226. Dioxine N
- 227. Diphacinone
- 228. Diphosphoramide octamethyl
- 229. Diphenyl methane diisocynate (MDI)
- 230. Dipropylene Glycol Butyl ether
- 231. Dipropylene glycolmethyl ether

- 232. Disec-butyl
 - peroxydicarbonate (Conc.>80%)
- 233. Dithiobiurate
- 234. Endosulfan
- 235. Endothion
- 236. Endrin
- 237. Epichlorohydrine
- 238. EPN
- 239. Ergocalciferol
- 240. Ergotamine tartarate
- 241. Ethanesulfenyl chloride, 2 chloro
- 242. Ethanol 1-2 dichloracetate
- 243. Ethion
- 244. Ethoprophos
- 245. Ethyl acetate
- 246. Ethyl alcohol
- 247. Ethyl benzene
- 248. Ethyl bis amine
- 249. Ethyl bromide
- 250. Ethyl carbamate
- 251. Ethyl ether
- 252. Ethyl hexanol -2
- 253. Ethyl mercaptan
- 254. Ethyl mercuric phosphate
- 255. Ethyl methacrylate
- 256. Ethyl nitrate
- 257. Ethyl thiocyanate
- 258. Ethylamine
- 259. Ethylene
- 260. Ethylene chlorohydrine
- 261. Ethylene dibromide
- 262. Ethylene diamine
- 263. Ethylene diamine hydrochloride
- 264. Ethylene flourohydrine
- 265. Ethylene glycol
- 266. Ethylene glycol dinitrate
- 267. Ethylene oxide
- 268. Ethylenimine
- 269. Ethylene di chloride
- 270. Femitrothion
- 271. Fensulphothion

- 272. Fluorine 273. Fluoro2-hyrdoxy butyric acid amid salt ester 274. Fluoroacetamide 275. Fluoroacetic acid amide salts and esters 276. Fluoroacetylchloride 277. Fluorobutyric acid amide salt esters 278. Fluorocrotonic acid amides salts esters 279. Fluorouracil 280. Fonofos 281. Formaldehyde 282. Formetanate hydrochloride 283. Formic acid 284. Formoparanate 285. Formothion 286. Fuberidazole 287. Furan 288. Gallium Trichloride 289. Glyconitrile (Hydroxyacetonitrile) 290. Guanyl-4nitrosaminoguynyl-1tetrazene 291. Heptachlor 292. Hexamethyl tertaoxyacyclononate (Conc 75%) 293. Hexachlorobenzene 294. Hexachlorocyclohexan (Lindane) 295. Hexachlorocyclopentadien 296. Hexachlorodibenzo-pdioxin 297. Hexachloronapthalene 298. Hexafluoropropanone sesquihydrate
- 299. Hexamethyl phosphoromide

300. Hexamethylene diamine N N dibutvl 301. Hexane 302. Hexanitrostilbene 2, 2, 4, 4, 6, 6 303. Hexene 304. Hydrogen selenide 305. Hydrogen sulphide 306. Hydrazine 307. Hydrazine nitrate 308. Hydrochloric acid 309. Hydrogen 310. Hydrogen bromide 311. Hydrogen cyanide 312. Hydrogen fluoride 313. Hydrogen peroxide 314. Hydroquinone 315. Indene 316. Indium powder 317. Indomethacin 318. Iodine 319. Iridium tetrachloride 320. Ironpentacarbonyl 321. Iso benzan 322. Isoamyl alcohol 323. Isobutyl alcohol 324. Isobutyro nitrile 325. Isocyanic acid 3, 4 dichlorophenyl ester 326. Isodrin 327. Isofluorophosphate 328. Isophorone diisocyanate 329. Isopropyl alcohol 330. Isopropyl chlorocarbonate 331. Isopropyl formate 332. Isopropyl methyl pyrazolyl dimethyl carbamate 333. Juglone (5-Hydroxy Naphthalene-1,4 dione) 334. Ketene 335. Lactonitrile

336. Lead arsenite

- 337. Lead at high temp (molten)
- 338. Lead azide
- 339. Lead styphanate
- 340. Leptophos
- 341. Liquified petroleum gas
- 342. Lithium hydride
- 343. N-Dinitrobenzene
- 344. Magnesium powder or ribbon
- 345. Malathion
- 346. Maleic anhydride
- 347. Malononitrile
- 348. Manganese Tricarbonyl cyclopentadiene
- 349. Mechlor ethamine
- 350. Mephospholan
- 351. Mercuric chloride
- 352. Mercuric oxide
- 353. Mercury acetate
- 354. Mercury fulminate
- 355. Mercury methyl chloride
- 356. Mesitylene
- 357. Methaacrolein diacetate
- 358. Methacrylic anhydride
- 359. Methacrylonitrile
- 360. Methacryloyl oxyethyl isocyanate
- 361. Methane
- 362. Methanesulphonyl fluoride
- 363. Methidathion
- 364. Methiocarb
- 365. Methonyl
- 366. Methoxy ethanol (2methyl cellosolve)
- 367. Methoxyethyl mercuric acetate
- 368. Methyacryloyl chloride
- 369. Methyl 2-chloroacrylate
- 370. Methyl alcohol
- 371. Methyl amine
- 372. Methyl bromide (Bromomethane)

- 373. Methyl chloride
- 374. Methyl chloroform
- 375. Methyl chloroformate
- 376. Methyl cyclohexene
- 377. Methyl disulphide
- 378. Methyl ethyl ketone peroxide (Conc.60%)
- 379. Methyl formate
- 380. Methyl hydrazine
- 381. Methyl isobutyl ketone
- 382. Methyl isocyanate
- 383. Methyl isothiocyanate
- 384. Methyl mercuric dicyanamide
- 385. Methyl Mercaptan
- 386. Methyl Methacrylate
- 387. Methyl phencapton
- 388. Methyl phosphonic dichloride
- 389. Methyl thiocyanate
- 390. Methyl trichlorosilane
- 391. Methyl vinyl ketone
- 392. Methylene bis (2chloroaniline)
- 393. Methylene chloride
- 394. Methylenebis-4,4(2chloroaniline)
- 395. Metolcarb
- 396. Mevinphos
- 397. Mezacarbate
- 398. Mitomycin C
- 399. Molybdenum powder
- 400. Monocrotophos
- 401. Morpholine
- 402. Mustard gas
- 403. N-Butyl acetate
- 404. N.-Butyl alcohol
- 405. N-Hexane
- 406. N- Methyl-N, 2, 4, 6-Tetranitroaniline
- 407. Naphtha
- 408. Nephtha solvent
- 409. Naphthalene
- 410. Naphthyl amine

411. Nickel carbonyl/nickel tetracarbonyl

- 412. Nickel powder
- 413. Nicotine
- 414. Nicotine sulphate
- 415. Nitric acid
- 416. Nitric oxide
- 417. Nitrobenzene
- 418. Nitrocellulose (dry)
- 419. Nitrochlorobenzene
- 420. Nitrocyclohexane
- 421. Nitrogen
- 422. Nitrogen dioxide
- 423. Nitrogen oxide
- 424. Nitrogen trifluoride
- 425. Nitroglycerine
- 426. Nitropropane-1
- 427. Nitropropane-2
- 428. Nitroso dimethyl amine
- 429. Nonane
- 430. Norbormide
- 431. O-Cresol
- 432. O-Nitro Toluene
- 433. O-Toludine
- 434. O-Xylene
- 435. O/P Nitroaniline
- 436. Oleum
- 437. OO Diethyl S ethyl suph. methyl phos
- 438. OO Diethyl S propythio methyl phosdithioate
- 439. OO Diethyl s ethtylsulphinyl methylphosphorothioate
- 440. OO Diethyl s ethylsulphonyl methylphosphorothioate
- 441. OO Diethyls ethylthiomethylphosphorothioate
- 442. Organo rhodium complex
- 443. Orotic acid
- 444. Osmium tetroxide
- 445. Oxamyl

- 446. Oxetane, 3, 3bis(chloromethyl) 447. Oxidiphenoxarsine 448. Oxy disulfoton 449. Oxygen (liquid) 450. Oxygen difluoride 451. Ozone 452. P-nitrophenol 453. Paraffin 454. Paraoxon (Diethyl 4 Nitrophenyl phosphate) 455. Paraquat 456. Paraquat methosulphate 457. Parathion 458. Parathion methyl 459. Paris green 460. Penta borane 461. Penta chloro ethane 462. Penta chlorophenol 463. Pentabromophenol 464. Pentachloro naphthalene 465. Pentadecyl-amine 466. Pentaerythriotol tetranitrate 467. Pentane 468. Pentanone 469. Perchloric acid 470. Perchloroethylene 471. Peroxyacetic acid 472. Phenol 473. Phenol, 2, 2-thiobis (4, 6-Dichloro) 474. Phenol, 2, 2-thiobis (4 chloro 6-methyl phenol) 475. Phenol, 3-(1-methyl ethyl) methylcarbamate 476. Phenyl hydrazine hydrochloride 477. Phenyl mercury acetate 478. Phenyl silatrane 479. Phenyl thiourea 480. Phenylene P-diamine
 - 481. Phorate
 - 482. Phosfolan

483. Phosgene

- 484. Phosmet
- 485. Phosphamidon
- 486. Phosphine
- 487. Phosphoric acid
- 488. Phosphoric acid dimethyl (4 methyl thio)phenyl
- 489. Phosphorthioic acid dimethyl S(2-Bis) Ester
- 490. Phosphorothioic acid methyl (ester)
- 491. Phosphorothioic acid, OO Dimethyl S-(2-methyl)
- 492. Phosphorothioic, methylethyl ester
- 493. Phosphorous
- 494. Phosphorous oxychloride
- 495. Phosphorous pentaoxide
- 496. Phosphorous trichloride
- 497. Phosphorous penta chloride
- 498. Phthalic anhydride
- 499. Phylloquinone
- 500. Physostignine
- 501. Physostignine salicylate (1:1)
- 502. Picric acid (2, 4, 6trinitrophenol)
- 503. Picrotoxin
- 504. Piperdine
- 505. Piprotal
- 506. Pirinifos-ethyl
- 507. Platinous chloride
- 508. Platinum tetrachloride
- 509. Potassium arsenite
- 510. Potassium chlorate
- 511. Potassium cyanide
- 512. Potassium hydroxide
- 513. Potassium nitride
- 514. Potiassium nitrite
- 515. Potassium peroxide
- 516. Potassium silver cyanide
- 517. Powdered metals and mixtures

- 518. Promecarb
- 519. Promurit
- 520. Propanesultone
- 521. Propargyl alcohol
- 522. Propargyl bromide
- 523. Propen-2-chloro-1 ,3-diou diacetate
- 524. Propiolactone beta
- 525. Propionitrile
- 526. Propionitrile, 3-chloro
- 527. Propiophenone, 4-amino
- 528. Propyl chloroformate
- 529. Propylene dichloride
- 530. Propylene glycol, allylether
- 531. Propylene imine
- 532. Propylene oxide
- 533. Prothoate
- 534. Pyrazoxon
- 535. Pyrene
- 536. Pyridine
- 537. Pyridine, 2-methyl-3-vinyl
- 538. Pyridine, 4-nitro-1-oxide
- 539. Pyriminil
- 540. Quinone
- 541. Rhodium trichloride
- 542. Salcomine
- 543. Sarin
- 544. Selenious acid
- 545. Selenium Hexafluoride
- 546. Selenium oxychloride
- 547. Semicarbazide hydrochloride
- 548. Silane (4-amino butyl) diethoxy-meth
- 549. Sodium
- 550. Sodium anthra-quinone-1sulphonate
- 551. Sodium arsenate
- 552. Sodium arsenite
- 553. Sodium azide
- 554. Sodium cacodylate
- 555. Sodium chlorate
- 556. Sodium cyanide

- 557. Sodium fluoro-acetate
- 558. Sodium hydroxide
- 559. Sodium pentachlorophenate
- 560. Sodium picramate
- 561. Sodium selenate
- 562. Sodium selenite
- 563. Sodium sulphide
- 564. Sodium tellorite
- 565. Stannane acetoxy triphenyl
- 566. Stilbine (Antimony hydride)
- 567. Strychnine
- 568. Strychnine sulphate
- 569. Styphinic acid (2, 4,6trinitroresorcinol)
- 570. Styrene
- 571. Sulphoxide, 3chloropropyl octyl
- 572. Sulphur dichloride
- 573. Sulphur dioxide
- 574. Sulphur monochloride
- 575. Sulphur tetrafluoride
- 576. Sulphur trioxide
- 577. Sulphuric acid
- 578. Tellurim (powder)
- 579. Tellurium hexafluoride
- 580. TEPP (Tetraethyl pyrophosphate)
- 581. Terbufos
- 582. Tert-Butyl alcohol
- 583. Tert-Butyl peroxy carbonate
- 584. Tert-Butyl peroxy isopropyl
- 585. Tert-Butyl peroxyacetate (Conc >=70%)
- 586. Tert-Butyl peroxypivalate (Conc >=77%)
- 587. Tert-Butyl peroxyisobutyrate
- 588. Tetra hydrofuran
- 589. Terta methyl lead

- 590. Tetra nitromethane
- 591. Tetra-chlorodibenzo-pdioxin, 1, 2, 3, 7, 8(TCDD)
- 592. Tetraethyl lead
- 593. Tetramethylene disulphotetramine
- 594. Thallic oxide
- 595. Thallium carbonate
- 596. Thallium sulphate
- 597. Thallous chloride
- 598. Thallous malonate
- 599. Thallous sulphate
- 600. Thiocarbazide
- 601. Thiocynamicacid, 2(Benzothiazolyethio) methyl
- 602. Thiofamox
- 603. Thiometon
- 604. Thionazin
- 605. Thionyl chloride
- 606. Thiophenol
- 607. Thiosemicarbazide
- 608. Thiourea (2 chlorophenyl)
- 609. Thiourea (2-methyl phenyl)
- 610. Tirpate (2,4-dimethyl-1,3di-thiolane)
- 611. Titanium powder
- 612. Titanium tetra-chloride
- 613. Toluene
- 614. Toluene -2,4-di-isocyanate
- 615. Toluene 2,6-di-isocyanate
- 616. Trans-1,4-di chloro-butene
- 617. Tri nitro anisole
- 618. Tri (Cyclohexyl) methylstannyl 1,2,4 triazole
- 619. Tri (Cyclohexyl) stannyl-1H-1, 2, 3-triazole
- 620. Triaminotrinitrobenzene
- 621. Triamphos
- 622. Triazophos

- 623. Tribromophenol 2, 4, 6
- 624. Trichloro napthalene
- 625. Trichloro chloromethyl silane
- 626. Trichloroacetyl chloride
- 627. Trichlorodichlorophenylsil ane
- 628. Trichloroethyl silane
- 629. Trichloroethylene
- 630. Trichloromethane sulphenyl chloride
- 631. Trichloronate
- 632. Trichlorophenol 2, 3, 6
- 633. Trichlorophenol 2, 4, 5
- 634. Trichlorophenyl silane
- 635. Trichlorophon
- 636. Triethoxy silane
- 637. Triethylamine
- 638. Triethylene melamine
- 639. Trimethyl chlorosilane
- 640. Trimethyl propane phosphite
- 641. Trimethyl tin chloride
- 642. Trinitro aniline
- 643. Trinitro benzene
- 644. Trinitro benzoic acid
- 645. Trinitro phenetole
- 646. Trinitro-m-cresol
- 647. Trinitrotoluene
- 648. Tri-orthocresyl phosphate
- 649. Triphenyltin chloride
- 650. Tris(2-chloroethyl)amine
- 651. Turpentine
- 652. Uranium and its compounds
- 653. Valino mycin
- 654. Vanadium pentoxide
- 655. Vinyl acetate monomer
- 656. Vinyl bromide
- 657. Vinyl chloride
- 658. Vinyl cyclohexane dioxide
- 659. Vinyl fluoride
- 660. Vinyl norbornene
- 661. Vinyl toluene

- 662. Vinyledene chloride
- 663. Warfarin
- 664. Warfarin Sodium
- 665. Xylene dichloride
- 666. Xylidine
- 667. Zinc dichloropentanitrile
- 668. Zinc phosphide
- 669. Zr powder, Zr tetrachloride

Schedule XI - Isolated Storage At Installations Other Than Those Covered By Schedule XIII

(a) The threshold quantities set out below relate to each installation or group of installations belonging to the same occupier where the distance between installation is not sufficient to avoid, in foreseeable circumstances, any aggravation of major accident hazards. These threshold quantities apply in any case to each group of installations belonging to the same occupier where the distance between the installations is less than 500 metres.

(b) For the purpose of determining the threshold quantity of a Hazardous Chemical at an isolated storage, account shall also be taken of any Hazardous Chemical which is :-

- (i) in that part of any pipeline under the control of the occupier having control of the site, which is within 500 metres of that site and connected to it;
- (ii) at any other site under the control of the same occupier any part of the boundary of which is within 500 meters of the said site; and
- (iii) in any vehicle, vessel, aircraft or hovercraft, under the control of the same occupier which is used for storage purpose either at the site or within 500 metres of it;

but no account shall be taken of any Hazardous Chemical which is in a vehicle, vessel, aircraft or a hovercraft used for transporting it.

S. No.	Chemicals	Threshold Quantities (tonnes)	
(1)	(2)	(3)	(4)
1.	Acrylonitrile	350	5,000
2.	Ammonia atmospheric	60	600
	Pressurized	1000	5000
3.	Ammonium nitrate (a)	350	2,500
4.	Ammonium nitrate fertilizers (b)	1,250	10,000
5.	Chlorine	10	25
6.	Flammable gases as defined in Schedule X, paragraph (b) (i)	50	300
7.	Extremely flammable liquids as defined in Schedule X, paragraph (b) (ii)	5000	50,000
8.	Liquid oxygen	200	2000
9.	Sodium chlorate	25	250
10.	Sulphur dioxide	20	500
11.	Sulphur trioxide	15	100
S. No.	Chemicals	Threshold Quantit	ies (tonnes)
--------	--	-------------------	--------------
(1)	(2)	(3)	(4)
12.	Carbonyl chloride	0.750	0.750
13.	Hydrogen Sulphide	5	50
14.	Hydrogen Fluoride	5	50
15.	Hydrogen Cyanide	5	50
16.	Carbon disulphide	20	200
17.	Bromine	50	500
18.	Ethylene oxide	5	50
19.	Propylene oxide	5	50
20.	2-Propenal (Acrolein)	20	200
21.	Bromomethane (Methyl bromide)	20	200
22.	Methyl isocyanate	0.150	0.150
23.	Tetraethyl lead or tetramethyl lead	5	50
24.	1,2 Dibromoethane (Ethylene dibromide)	5	50
25.	Hydrogen chloride (liquefied gas)	25	250
26.	Diphenyl methane di-isocyanate (MDI)	20	200
27.	Toluene di-isocyanate (TDI)	10	100
28.	Very highly flammable liquids as defined	7,000	7,000
	in Schedule X, paragraph (b) (iii)		
29.	Highly flammable liquids as defined in	10,000	10,000
	Schedule X, paragraph (b) (iv)		
30.	Flammable liquids as defined in Schedule	15,000	1,00,000
	X, paragraph (b) (v)		

- (a) This applies to ammonium nitrate and mixtures of ammonium nitrates where the nitrogen content derived from the ammonium nitrate is greater than 28 per cent by weight and to aqueous solutions of ammonium nitrate where the concentration of ammonium nitrate is greater than 90 per cent by weight.
- (b) This applies to straight ammonium nitrate fertilizers and to compound fertilizers where the nitrogen content derived from the ammonium nitrate is greater than 28 per cent by weight (a compound-fertilizer contains ammonium nitrate together with phosphate and/or potash).

Schedule XII – List of Hazardous Chemicals for Application of Chapter IV

- (a) The quantities set-out-below relate to each installation or group of installations belonging to the same occupier where the distance between the installations is not sufficient to avoid, in foreseeable circumstances, any aggravation of major-accident hazards. These quantities apply in any case to each group of installations belonging to the same occupier where the distance between the installations is less than 500 metres.
- (b) For the purpose of determining the threshold quantity of a Hazardous Chemical in an industrial installation, account shall also be taken of any Hazardous Chemicals which is :-
 - (i) in that part of any pipeline under the control of the occupier have control of the site, which is within 500 metres off that site and connected to it;
 - (ii) at any other site under the control of the same occupier any part of the boundary of which is within 500 metres of the said site ; and
 - (iii) in any vehicle, vessel, aircraft or hovercraft under the control of the same occupier which is used for storage purpose either at the site or within 500 metres of it;

but no account shall be taken of any Hazardous Chemical which is in a vehicle, vessel, aircraft or hovercraft used for transporting it.

S. No.	Chemicals	Threshold Quantity		CAS Number	
(1)	(2)	(3) (4)		(5)	
	Group 1-Toxic	Substances			
1.	Aldicarb	100kg		116-06-3	
2.	4-Aminodiphenyl	1 kg		92-67-1	
3.	Amiton	1 kg		78-53-5	
4.	Anabasine	100 kg		494-52-0	
5.	Arseinc pentoxide, Arsenic (V) acid and	500 kg		1303-28-2	
	salts				
6.	Arsenic trioxide, Arsenic (III) acid and	100 kg		1327-53-3	
	salts				
7.	Arsine (Arsenic hydride)	10kg		7784-42-1	
8.	Azinphos-ethyl	100kg		2642-71-9	
9.	Azinphos-methyl	100 kg		86-50-0	
10.	Benzidine	1 kg		92-87-5	
11.	Benzidine salts	1 kg		117-61-3	
12.	Beryllium (powders, compounds)	10 kg		7440-41-7	
13.	Bis (2-chloroethyl) sulphide	1 kg		505-60-2	

Part -I Named Chemicals

S.	Chemicals	Threshold Quantity		CAS
No.				
(1)	(2)	(3)	(4)	(5)
14.	Bis (chloromethyl) ether	1 kg		542-88-1
15.	Carbofuran	100 kg		1563-66-2
16.	Carbophenothion	100 kg		786-19-6
17.	Chlorefenvinphos	100 kg		470-90-6
18.	4-(Chloroformyl) morpholine	1 kg		15159-40-7
19.	Chloromethyl methyl ether	1 kg		107-30-2
20.	Cobalt (metal, oxide, carbonates,	1 t		
	sulphides, as powders)			
21.	Crimidine	100 kg		535-89-7
22.	Cyanthoate	100 kg		3734-95-0
23.	Cycloheximide	100 kg		66-81-9
24.	Demeton	100 kg		8065-48-3
25.	Dialifos	100 kg		10311-84-9
26.	OO-Diethyl S-ethylsulphinylmethyl	100 kg		2588-05-8
	Phosphorothiate			
27.	OO-Diethyl S-ethylsulphonylmethyl	100 kg		2588-06-9
	phosphorothiate			
28.	OO-Diethyl S-ethylthiomethyl	100 kg		2600-69-3
	Phosphorothioate			
29.	OO-Diethyl S-isoprophylthiomethyl	100 kg		78-52-4
	phosphorodithioate			
30.	OO-Diethyl S-isopropylthiomethyl	100 kg		3309-68-0
	Phosphorodithioate			
31.	Dimefox	100 kg		115-26-4
32.	Dimethylcarbamoyl chloride	1 kg		79-44-7
33.	Dimethylnitrosamine	1 kg		62-75-9
34.	Dimethyl phosphoramidocynacidic acid	1 t		77-81-6
35.	Diphacinone	100 kg		82-66-6
36.	Disulfoton	100 kg		298-04-4
37.	EPN	100 kg		2104-64-5
38.	Ethion	100 kg		563-12-2
39	Fensulphothion	100 kg		115-90-2
40.	Fluenetil	100 kg		4301-50-2
41.	Fluoroacetic acid	1 kg		144-49-0
42.	Fluoroacetic acid, salts	1 kg		
43.	Fluoroacetic acid, esters	1 kg		
44.	Fluoroacetic acid, amides	1 kg		
45.	4-Fluorobutyric acid	1 kg		462-23-7

S.	Chemicals	Threshold Quantity		CAS
No.				Number
(1)	(2)	(3)	(4)	(5)
46.	4-Fluorobutyric acid, salts	1 kg		
47.	4-Fluorobutyric acid, esters	1 kg		
48.	4-Fluorobutyric acid, amides	1 kg		
49.	4-Fluorobutyric acid	1 kg		37759-72-1
50.	4-Fluorocrotonic acid, salts	1 kg		
51.	4-Fluorocrotonic acid, esters	1 kg		
52.	4-Fluorocrotonic acid, amides	1 kg		
53.	4-Fluoro-2-hydroxybutyric acid, amides	1 kg		
54.	4-Fluoro-2-hydroxybutyric acid, salts	1 kg		69780-81-0
55.	4-Fluoro-2-hydroxybutyric acid, esters	1 kg		
57.	Glycolonitrile (Hydroxyacetonitrile)	100 kg		107-16-4
58.	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	100 kg		194-8-74-3
59.	Hexamethylphosphoramide	1 kg		680-31-9
60.	Hydrogen selenide	10 kg		7783-07-5
61.	Isobenzan	100 kg		297-78-9
62.	Isodrin	100 kg		465-73-6
63.	Juglone	100 kg		481-39-0
	(5-Hydroxynaphithalene 1,4 dione)			
64.	4,4-Methylenebis (2-chloroniline)	10 kg		101-14-4
65.	Methyl isocynate	150 kg	150kg	624-83-9
66.	Mevinphos	100 kg		7786-34-7
67.	2-Naphthylamine	1 kg		91-59-8
68.	2-Nickel (metal, oxides, carbonates),	1 t		
	sulphides, as powers)			
69.	Nickel tetracarbonyl	10 kg		13463-39-3
70.	Oxygendisulfoton	100 kg		2497-07-6
71.	Oxygen difluoride	10 kg		7783-41-7
72.	Paraoxon (Diethyl 4-nitrophenyl	100 kg		311-45-5
	phosphate)			
73.	Parathion	100 kg		56-38-2
74.	Parathion-methyl	100 kg		298-00-0
75.	Pentaborane	100 kg		19624-22-7
76.	Phorate	100 kg		298-02-2
77.	Phosacetim	100 kg		4104-14-7
78.	Phosgene (carbonyl chloride)	750 kg	750kg	75-44-5
79.	Phosphamidon	100 kg		13171-21-6
80.	Phosphine (Hydrogen phosphide)	100 kg		7803-51-2
81.	Promurit (1-(3,4 dichlorophenyl)-3-	100 kg		5836-73-7

S.	Chemicals	Threshold Quantity		CAS
No.				Number
(1)		(2)		(5)
(1)	(2) triazanthioaanhayamida)	(3)	(4)	(5)
02	1.2 December 2000	1 1		1120 71 4
82.	1,3-Propanesultone	l Kg		1120-71-4
83.	1-Propen-2-chloro-1,3diol diacetate	10 kg		10118-72-6
84.	Pyrazoxon	100 kg		108-34-9
85.	Selenium hexafluoride	10 kg		7/83-79-1
86.	Sodium selenite	100 kg		10102-18-8
87.	Stibine (Antimony hydride)	100 kg		7803-52-3
88.	Sulfotep	100 kg		3689-24-5
89.	Sulphur dichloride	1 t		10545-99-0
90.	Tellurium hexafluoride	100 kg		7783-80-4
91.	TEPP	100 kg		107-49-3
92.	2,3,7,8,-Tetrachlorodibenzo-p-dioxin	1 kg		1746-01-6
	(TCDD)			
93.	Tetramethylene disulphotetramine	1 kg		80-12-6
94.	Thionazin	100 kg		297-97-2
95.	Tirpate (2,4-Dimethyl-1,3-dithiolane-2-	100 kg		26419-73-8
	carboxaldehyde			
	O-methylcarbamoyloxime)			
96.	Trichloromethanesulphonyl chloride	100 kg		594-42-3
97.	1-Tri (cyclohexyl) stannyl 1H-1,2,4-	100 kg		41083-11-8
	Triazole			
98.	Triethylene melamine	10 kg		51-18-3
99.	Warfarin	100 kg		81-81-2
	Group-2 Toxic	Substances		
100	Acetone cyanohydrin (2-Cyanopropan-	200 t		75-86-5
	2-ol			
101	Acrolein (2-Propenal)	20 t	200t	107-02-8
102	Acrylonitrile	20 t	200t	107-13-1
103	Allyl alcohol (Propen-1-ol)	200 t		107-18-6
104	Allyl amine	200 t		107-11-9
105	Ammonia	50 t	500t	7664-41-7
106	Bromine	40 t	500t	7726-95-6
107	Carbon disulphide	20 t	200t	75-15-0
108	Chlorine	10 t	25t	7782-50-5
109	Diphneyl methane di-isocvnate (MDI)	20 t	200t	101-68-8
110	Ethylene dibromide (12-	5 t	50t	106-93-4
	Dibromoethane)			
111	Ethyleneimine	5 t		151-56-4

S.	Chemicals	Threshold Quantity		CAS
No.				Number
(1)	(2)	(3)	(4)	(5)
112	Formaldehyde (concentration <90%)	5 t	50t	50-00-0
113	Hydrogen chloride (liquified gas)	25 t	250t	7647-01-0
114	Hydrogen cyanide	5 t	20t	74-90-8
115	Hydrogen fluoride	5 t	50t	7664-39-3
116	Hydrogen sulphide	5 t	50t	7783-06-4
117	Methyl bromide (Bromomethane)	20 t	200 t	74-83-9
118	Nitrogen oxides	50 t		10024-97-2
119	Propyleneimine	50 t		75-55-8
120	Sulphur dioxide	20 t	250t	7446-09-5
121	Sulphur trioxide	15 t	75t	7446-11-9
122	Tetraethyl lead	5 t	200t	78-00-2
123	Tetra methyl lead	5 t	100t	75-74-1
124	Toluene di-isocynate (TDI)	10 t	100 t	584-84-9
	Group-3 Highly Rea	active Substanc	es	
125	Acetylene (ethyne)	5 t		74-86-2
126	a. Ammonium nitrate (1)	350t	2500t	6484-52-2
	b. Ammonium nitrate in form of	1250 t	10,000 t	
	fertilizer (2)			
127	2,2 Bis (tert-butylperoxy) butane)	5 t		2167-23-9
	(concentration >70%)			
128	1, 1-Bis(tert-butylperoxy) cyclohexane	5 t		3006-86-8
	(concentration > 80%)			
129	tert-Butyle proxyacetate (concentration	5 t		107-71-1
	l ≤70%)			
130	tert-Butyle peroxy isobutyrate	5 t		109-13-7
	(concentration >80%)			
131	Tert-Butyl peroxy isopropyl carbonate	5 t		2372-21-6
	(concentration $\geq 80\%$)			
132	Tert-Butyl peroxymaletate	5 t		1931-62-0
	(concentration $\geq 80\%$)			
133	Tert-Butyl peroxypivalate	50 t		927-07-1
	(concentration \geq 77%)			
134	Dibenzyl peroxydicarbonate	5 t		2144-45-8
	(concentration≥90%)			
135	Di-sec-butyl peroxydicarbonate	5 t		19910-65-7
	(concentration $\geq 80\%$)			
136	Diethyl peroxydicarbonate	50 t		14666-78-5
	(concentration $\geq 30\%$)			

S.	Chemicals	Threshold Quantity		CAS
No.				Number
(1)	(2)	(3)	(4)	(5)
137	2,2-dihydroperoxypropane	5 t		2614-76-08
	(concentration≥30%)			
138	di-isobutyrl peroxide	50 t		3437-84-1
	(concentration $\geq 50\%$)			
139	Di-n-propyl peroxydicarbonate	5 t		16066-38-9
	(concentration≥80%)			
140	Ethylene oxide	5 t	50 t	75-21-8
141	Ethyl nitrate	50 t		625-58-1
142	3,3,6,6,9,9 Hexamethyl - 1,2,4 5-tert	50 t		22397-33-7
	oxacycloxonane			
	(concentration \geq 75%)			
143	Hydrogen	2 t	50 t	1333-74-0
144	Liquid Oxygen	200 t	2000t	7782-44-7
145	Methyl ethyl ketone peroxide	5 t		1338-23-4
	(concentration $\geq 60\%$)			
146	Methyl isobutyl ketone peroxide	50 t		37206-20-5
	(concentration $\geq 60\%$)			
147	Peracetic acid	50 t		79-21-0
	(concentration $\geq 60\%$)			
148	Propylene oxide	5 t	50t	75-56-9
149	Sodium chlorate	25 t	250 t	7775-09-9
	Group 4-Explosi	ve Substances		
150	Barium azide	¹ [100] kg		18810-58-7
151	Bis(2,4,6 -trinitrophenyl) amine	50 t		131-73-7
152	Chlorotrinitro benzene	50 t		28260-61-9
153	Cellulose nitrate	50 t		9004-70-0
	(containing 12.6% Nitrogen)			
154	Cyclotetramethylene teranitramine	50 t		2691-41-0
155	Cyclotrimethylene trinitramine	50 t		121-82-4
156	Diazodinitrophenol	10 t		7008-81-3
157	Diethylene glycol dinitrate	10 t		693-21-0
158	Dinitrophenol, salts	50 t		25550-58-7
159	Enthylene glycol dinitrate	10 t		628-96-6
160	1-Gyanyl-4-nitrosaminoguanyl-1-	100 kg		109-27-3
	tetrazene			
161	2, 2, 4, 4, 6, 6, -: Hexanitrostilbene	50 t		20062-22-0
162	Hydrazine nitrate	50 t		13464-97-6
163	Lead azide	100 kg		13424-46-9
164	Lead Styphnate (Lead 2,4,6-	50 t		15245-44-0

S.	Chemicals	Threshold Quantity		CAS Number
190.				Inumber
(1)	(2)	(3)	(4)	(5)
	trinitroresorcinoxide)			
165	Mercury fuliminate	10 t		628-86-4
166	N-Methyl-N,2,4,6-tetranitroaniline	50 t		479-45-8
167	Nitroglycerine	10 t	10t	55-63-0
168	Pentaerythritol tetra nitrate	50 t		78-11-5
169	Picric acid, (2,3,6-Trinitrophenol)	50 t		88-89-1
170	Sodium picramate	50 t		831-52-7
171	Styphnic acid	50 t		82-71-3
	(2,4,6-Trinitroresorcinol)			
172	1,3,5-Triamino-2,4,6-Trinitrobezene	50 t		3058-38-6
173	Trinitroaniline-	50 t		26952-42-1
174	2,4,6-Trinitroanisole	50 t		606-35-9
175	Trinitrobenze	50 t		99-35-4
176	Trinitrobenzoic acid	50 t		35860-50-5
				129-66-8
177	Trinitrocresol	50 t		28905-71-7
178	2,4,6-Trinitrophenetole	50 t		4732-14-3
179	2,4,6-Trinitrotoluene	50 t	50 t	118-96-7

Part II Classes Of Substances As Defined In Part – I, Schedule X and Not Specifically Named In Part –I Of This Schedule

S.	Chemicals	Threshold Quantity(tonnes)	
No.			
	Group 5 - Flamm	nable Substances	
(1)	(2)	(3)	(4)
1.	Flammable Gases	15t	200t
2.	Extremely flammable liquids	1000t	5000t
3.	Very highly flammable liquids	1500t	10000t
4.	Highly Flammable liquids which	25t	200t
	remains liquid under pressure		
5.	Highly Flammable liquids	2500t	20000t
6.	Flammable liquids	5000t	50000t

(1) This applies to ammonium nitrate and mixtures of ammonium nitrate where the nitrogen content derived from the ammonium nitrate is greater than 28% by weight

and aqueous solutions of ammonium nitrate where the concentration of ammonium nitrate is greater than 90% by weight.

(2) This applied to straight ammonium nitrate fertilizers and to compound fertilizers where the nitrogen content derived from the ammonium nitrate is greater than 28% by weight (a compound fertilizer contains ammonium nitrate together with phosphate and/or potash).

Schedule XIII - Industrial Installations

- 1. Installation for the production, processing or treatment of organic or inorganic chemicals used for this purpose, among others:
 - (a) Alkylation
 - (b) Amination by ammonolysis
 - (c) Carbonylation
 - (d) Condensation
 - (e) Dehydrogenation
 - (f) Esterification
 - (g) Halogenation and manufacture of halogens
 - (h) Hydrogenation
 - (i) Hydrolysis
 - (j) Oxidation
 - (k) Polymerziation
 - (l) Sulphonation
 - (m) Desulphurization, manufacture and transformation of sulphur containing compounds
 - (n) Nitration and manufacture of nitrogen containing compounds
 - (o) Manufacture of phosphorous-containing compounds
 - (p) Formulation of pesticides and of pharmaceutical products
 - (q) Distillation
 - (r) Extraction
 - (s) Solvation
 - (t) Mixing
- 2. Installation for distillation, refining or other processing of petroleum or petroleum products.
- 3. Installations for the total or partial disposal of solid or liquid substances by incineration or chemical decomposition. Steps to be taken for remedial action
- 4. Installations for production, processing, use or treatment of energy gases, for example, Liquefied Petroleum Gas, Liquefied Natural Gas, Substitute Natural Gas.
- 5. Installation for the dry distillation of coal or lignite.
- 6. Installations for the production of metals or non-metals by a wet process or by means of electrical energy of any other similar process.

Schedule XIV - Information To Be Furnished By The Occupier

1. The name, contact details and address of the Occupier

Part I

Subpart A Report to be furnished for the Notification of the Industrial Activity

- 1. The full postal address of the site where the industrial activity will be carried on.
- 2. The area of the site covered by the notification and of any adjacent site which is required to be taken into account.
- 3. The date on which it is anticipated that the industrial activity will commence, or if it has already commenced a statement to that effect.
- 4. The name, physical state and maximum quantity of Hazardous Chemicals liable to be on the site.
- 5. Organisation structure namely organisation diagram set up for the proposed industrial activity and for ensuring safety.
- 6. Description of the industrial activity, namely
 - a. construction design
 - b. protection zones explosion protection, separation distances
 - c. accessibility of plant

- d. maximum number of persons working on the site and particularly of those persons exposed to be the hazard
- e. flow diagram
- 7. Information relating to the site

namely-

- a. a map of the site and its surrounding area to a scale large enough to show any features that may be significant in the assessment of the hazard risk or associated with the site
- b. population distribution in the vicinity
- c. a scale plan of the site showing the location and quantities of all significant inventories of the Hazardous Chemicals
- d. a description of the process or storage involving the Hazardous Chemicals and an indication of the conditions under which they are normally held
- e. the maximum number of persons likely to be present on site and particularly of those persons exposed to the hazard.

8. The arrangement for training of workers and maintaining equipment necessary to ensure the safety of such workers.

Subpart B Particulars to be included regarding pipeline

- 1. The full postal address of the place
 - a. from which the pipeline activity is controlled,
 - b. where the pipeline starts,
 - c. where the pipeline finishes
- 2. A map showing the pipeline route drawn to a scale of not less than 1:4,00,000.
- 3. The date on which it is anticipated that the notifiable activity will commence, or if it is already commenced a statement to that effect.
- 4. The total length of the pipeline, its diameter and normal operating pressure and the name and maximum quantity liable to be in the pipeline of Hazardous Chemicals for which notification is being made.

Part II Information To Be Furnished In A Safety Report

- 1. The name and address of the person furnishing the information.
- 2. Description of the processes, namely -
 - (a) technical purpose of the industrial activity,
 - (b) basic principles of the technological process,
 - (c) process and safety related data for the individual process stages,
 - (d) process description,
 - (e) Safety-related types of utilities.
- 3. Description of the Hazardous Chemicals, namely -
 - (a) chemicals (quantities, substance data, safetyrelated data, toxicological data and threshold values),
 - (b) the form in which the chemical may occur on or into which they may be transformed in the event of abnormal conditions,
 - (c) the degree of purity of the Hazardous Chemical.
- 4. Information on the preliminary hazard analysis, namely-
 - (a) hazards,
 - (b) types of accident
 - (c) system elements or events that can lead to a major accident,

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- (d) safety-relevant components.
- 5. Description of safety relevant units, among others:
 - (a) special design criteria,
 - (b) controls and alarms,
 - (c) special relief systems,
 - (d) quick-acting valves,
 - (e) collecting tanks/dump tank,
 - (f) sprinkler system,
 - (g) firefighting etc.
- 6. Information on the hazard assessment, namely-
 - (a) identification of hazards ,
 - (b) the cause of major accidents,
 - (c) assessment of hazards according to their occurrence frequency,
 - (d) assessment of accident consequences,
 - (e) safety systems,
 - (f) known accident history.
- Description of information or organizational systems used to carry on the industrial activity safely, namely-
 - (a) maintenance and inspection schedules,
 - (b) guidelines for the training of personnel,
 - (c) allocation and delegation of responsibility for plant safety,
 - (d) implementation of safety procedure.

- (e) List of workers with probability of hazardous exposure and likely health outcomes following hazard evaluation and assessment.
- 8. Information on assessment of the consequences of major accidents, namely-
 - (a) assessment of the possible release of Hazardous Chemicals or of energy,
 - (b) possible dispersion of released chemical,
 - (c) assessment of the effects of the releases (size of the affected area, health effects, property damage)
 - (d) Exposure scenario constructed in the event of spill, fall out of pollutants and likely adverse health effects with a plan to follow up the exposed population.
- 9. Information on the mitigation of major accidents, namely -
 - (a) fire brigade,
 - (b) alarm systems,
 - (c) emergency plan containing system of organisation used to fight the emergency, the alarm and the communication rules guidelines for fighting

the emergency, information about Hazardous Chemicals, examples of possible accident sequences,

- (d) coordination with the District Emergency authority and its offsite emergency plan,
- (e) notification of the nature and scope of the hazard in the event of an accident,
- (f) antidotes in the event of a release of a Hazardous Chemical.

Part - III Details to be Furnished in the On-site Emergency Plan

- 1. Name and address of the person furnishing the information.
- 2. Key personnel of the organization and responsibilities assigned to them in case of an emergency
- 3. Outside organization if involved in assisting during on-site emergency:
 - (a) Type of accidents
 - (b) Responsibility assigned
- 4. Details of liaison arrangement between the organizations.
- 5. Information on the preliminary hazard analysis:
 - (a) Type of accidents
 - (b) System elements or events that can lead to a major accident

- (c) Hazards
- (d) Safety relevant components
- (e) Steps to be taken for remedial action
- 6. Details about the site:
 - (a) Location of dangerous substances
 - (b) Seat of key personnel
 - (c) Emergency control room
- 7. Description of Hazardous Chemicals at plant site:
 - (a) Chemicals (Quantities and toxicological data)
 - (b) Transformation if any, which could occur
 - (c) Purity of Hazardous Chemicals.
- 8. Likely dangers to the plant.
- 9. Enumerate effects of:
 - (i) Stress and strain caused during normal operation:
 - (ii) Fire and explosion inside the plant and effect if any, of fire and explosion outside.
- 10. Details regarding:

(i) Warning, alarm and safety and security systems.

(ii) Alarm and hazard control plans in line with disaster control and hazard control planning, ensuring the necessary technical and organizational precautions.

(iii) Reliable measuring instruments, control units and servicing of such equipment.

(iv) Precautions in designing of the foundation and load bearing parts of the building.

(v) Continuous surveillance of operations.

(vi) Maintenance and repair work according to the generally recognized rules of good engineering practices.

- 11. Details of communication facilities available during emergency and those required for an off-site emergency.
- 12. Details of firefighting and other facilities available and those required for an off-site emergency.
- 13. Details of first aid and hospital services available and its adequacy.

Schedule XV - Details to be Furnished in the Off-site Emergency Plan

1. The types of accidents and release to be taken into account.

2. Organizations involved including key personnel and responsibilities and liaison arrangements between them.

3. Information about the site including likely locations of dangerous substances, personnel and emergency control rooms.

4. Technical information such as chemical and physical characteristics and dangers of the substances and plant.

5. Identify the facilities and transport routes.

6. Contact for further advice e.g. meteorological information, transport, temporary food and accommodation, first aid and hospital services, water and agricultural authorities.

7. Communication links including telephones, radios and standby methods.

- 8. Special equipment including firefighting materials, damage control and repair items.
- 9. Details of emergency response procedures.
- 10. Notify the public.
- 11. Evacuation arrangements.
- 12. Arrangements for dealing with the press and other media interests
- 13. Longer term clean up.

Schedule XVI - Information to be furnished regarding Notification of a Chemical Accident

- 1. General data
- (a) Name of the site of Major Chemical Accident
- (b) Name, contact details and address of the Occupier
- (c) (i) Registration number
 - (ii) Licence number (as may have been allotted under any status applicable to the site, e.g. the Factories Act)
- (d) (i) Nature of industrial activity
- 2. Type of major accident
- (a) Explosion
- (b) Fire
- (c) Emission of dangerous substance
- (d) Other
- 3. Substance(s) emitted
- 4. Description of the major accident
 - (a) Date, shift and hour of the accident
 - (b) Department/Section and exact place where the accident took place
 - (c) The process/operation undertaken in the Department/Section where the accident took place.
 - (d) The circumstances of the accident and the dangerous substance involved
- 5. Causes of the major accident.
 - (a) Known (to be specified)
 - (b) Not Known
 - (c) Information will be supplied as soon as possible

6. Sequence of event in chronological order including information given to authorities/public etc.

7. Nature and extent of damage

- (a) Within the establishment casualties
 - 1) Killed
 - 2) Injured
 - 3) Poisoned
 - 4) Persons exposed to the major accident
 - 5) material damaged

- 6) danger is still present
- 7) danger no longer exists.
- (b) Outside the establishment casualties.
 - 1) Killed
 - 2) Injured
 - 3) Poisoned
 - 4) Persons exposed to the major accident
 - 5) Material damaged
 - 6) Damage to environment
 - 7) The danger is still present
 - 8) The danger no longer exists
- 8. Data available for assessing the effects of the accident on persons and environment.
- 9. Emergency Measures taken and measures envisaged to be taken to alleviate short term effects of the accident.
- 10. Steps already taken or envisaged
 - (a) to alleviate medium- or long-term effects of the accident
 - (b) to prevent recurrence of similar major accident
 - (c) any other relevant information.

Schedule XVII - Information in Labelling

A Priority Substance in packaging shall bear a label including the following elements:

- 1. The name, address and telephone number of the manufacturer, importer or downstream user
- 2. The nominal quantity (with +/- 5% accuracy) of the Priority Substance or Hazardous Chemical in concentration of greater than 0.1% (w/w) in the package made available to the general public, unless this quantity is specified elsewhere on the package
- 3. Product identifiers
- 4. Hazard pictograms where applicable
- 5. Signal words, where applicable
- 6. Hazard statements, where applicable,
- 7. Appropriate precautionary statements, where applicable
- 8. A section, where applicable
- 9. IN Number as assigned by the Division

(All information shall be in accordance to the eighth revision of UN-GHS Classification)

Schedule XVIII – Format of Certificates

Part A- Notification Certificate

Notification Certificate
issued under Rule 8 of the Chemicals (Management & Safety Rules), 20xx
Name of the Notifier:
Name of the Substance:
Chemical Composition of Substance:
Tonnage Band that the Substance falls under:
Notification Number:
Notification Date:
Comments:
Issued by
Head, Chemical Regulatory Division
Petroleum and Explosives Safety Organisation

Part B – Registration Certificate

Registration Certificate

issued under Rule 10 of the Chemicals (Management & Safety Rules), 20xx

Name of Registrant:

Name of the Substance:

Chemical Composition of Substance:

Tonnage Band that the Substance falls under:

Notification Number:

Registration Number:

Registration Date:

Comments:

Issued by Head, Chemical Regulatory Division

Schedule	XIX –	Fees	and	Fines	Payable
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S.	Rule			Amount payable	Amount payable by
No.				by MSMEs	all other entities
1.	8(5)	Notification	1 – 10 TPA	10	25
		by tonnage	10 – 100 TPA	30	75
		band	100 – 1000 TPA	80	200
			> 1000 TPA	250	600
2.	10(10)	Registration	1 – 10 TPA	15	37
		by tonnage	10-100 TPA	45	112
		band	100 – 1000 TPA	120	300
			> 1000 TPA	375	900
3.	16(5)	Request for au	thorization for use	1000	1000
		of a Restrie	cted Substance		
4.	17(3)	Request for	Confidentiality	5	100
5.	19(4)	Filing	an appeal	10	100

1. Fees for Notifiers and Registrants under the Rules generally (Rs. '000)

2. Fees for updating tonnage band in Notifications and Registrations (Rs.'000)

S.	Rule			Amount payable	Amount payable by
No.				by MSMEs	all other entities
1	8(5)	Updating	From $1 - 10$ TPA to	20	50
1		tonnage	10 -100 TPA		
		band in	From $1 - 10$ TPA to	70	175
		Notification	100 -1000 TPA		
			From $1 - 10$ TPA to	240	575
		>1000 TPA			
			From 10 – 100 TPA	50	125
			to 100 -1000 TPA		
			From 10 – 100 TPA	220	525
			to >1000 TPA		
			From 100 – 1000	170	400
			TPA to >1000 TPA		

3. Fees for Joint Registration per Registrant (Rs. '000)

S.	Rule	Tonnage Band	Amount payable	Amount payable by
No.			by MSMEs	all other entities
1.	10(10)	1-10 TPA	10	25
		10 – 100 TPA	30	75
		100 – 1000 TPA	80	200
		>1000 TPA	250	600

4. Sitting Fees for Members of Scientific Committee and Risk Assessment Committee (Rs. '000)

S. No	Rule	Amount per day
1.	4(7)	10

5. Fines (Rs. '000)

S. No	Rule	Tonnage Band	Fine to be imposed for each day of contravention
1.	35(1) & (2)	1 – 1000 TPA	25
2.	35(1) & (2)	>1000 TPA	50
