

Statutory Instrument 315 of 1981.

[CAP. 322

**Hazardous Substances and Articles (Group III: General)  
Regulations, 1981**

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It is hereby notified that the Minister of Health has, in terms of section 47 of the Hazardous Substances and Articles Act [Chapter 322], made the following regulations:—

*Title and date of operation*

1. (1) These regulations may be cited as the Hazardous Substances and Articles (Group III: General) Regulations, 1981.

(2) These regulations shall come into operation on the 1st day of January, 1982.

*Application*

2. These regulations shall apply to any substance, other than those described in the Third Schedule to the extent prescribed in that Schedule, which consists of or contains a group III hazardous substance specified in column one of the First Schedule.

*Interpretation*

3. In these regulations—

“aerosol” means a group III hazardous substance dispersed in a gas which can be dispensed from its container by means of a manually operated valve which forms an integral part of the container;

“corrosive substance” means any substance which, in contact with living tissue, will cause destruction of that tissue by chemical action;

“flammable aerosol” means an aerosol which, when tested by the method prescribed in the Fourth Schedule, produces—

(a) at full valve-opening, a flame-projection exceeding four hundred and fifty millimetres; or

(b) at any degree of valve-opening, a flame extending back to the dispenser;

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"flammable gas" means—

- (a) a gaseous substance or preparation which; or
- (b) a liquefied gas which, when vaporized;  
is flammable in air at normal pressure;

"flammable liquid" means any liquid which has a flash-point of thirty degrees Celsius or below;

"flammable solid" means a solid substance, other than an explosive, which is easily ignited and burns with rapidity or with the emission of great heat, or a solid substance which ignites readily when subjected to any friction;

"flash-point" means the lowest temperature at which the application of a test-flame causes the vapour at the surface of a liquid to ignite but not to continue to burn, as determined by the Abel closed-cup test method described in British Standard 3442, Part 2, which may be inspected free of charge at the office of the Secretary for Health;

"immediate container" shall not include any inner container which encloses a hazardous substance to prevent spillage within an outer container;

"irritant substance" means any chemical substance, not corrosive, which, on immediate, prolonged or repeated contact with normal living tissues, will induce a local inflammatory reaction;

"protective clothing" means—

- (a) clothing made from protective material; and
- (b) face-masks, face-shields, goggles and respirators with appropriate cartridges or canisters;  
specially designed to afford protection to the wearer from the hazards presented by the substance;

"sensitizing substance" means any chemical substance which will cause, on normal living tissue, through an allergic or photodynamic process, a hypersensitivity which becomes evident on reapplication of the same substance;

“toxic substance” means any chemical substance, other than a radio-active substance, which has the capacity to produce personal injury or illness through ingestion, by absorption through the skin or by inhalation.

*Labelling*

4. (1) Subject to the provisions of subsection (2), no person shall sell for use within Zimbabwe a group III hazardous substance, other than a *group III hazardous substance described in the Third Schedule*, consisting of or containing a substance specified in column 1 of the First Schedule, unless—

- (a) the immediate container of such substance, or a label securely affixed to that container, has prominently printed or otherwise marked thereon, immediately below the name or the brand name of the substance, a red equilateral triangle, and bears within the triangle a skull and cross-bones symbol printed in black and occupying one-third of the area of the triangle and the word “DANGER” printed in black in capital letters in bold-face type;
- (b) the container or its label bears in capital letters in bold-face type, immediately below the base of the triangle, in the case of a group III hazardous substance which is—
  - (i) flammable in terms of *Part I of the First Schedule*, the warnings specified in column two of that Part; and
  - (ii) specified in *Part II of the First Schedule*, the warnings appropriate to that substance specified in column 2 of that Part;
- (c) the length of each side of the triangle and the type-size of the words of warning referred to in paragraphs (a) and (b) are not less than as specified in this paragraph in relation to the capacity of the container—

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<i>Capacity of container</i>	<i>Minimum length of each side of triangle</i>	<i>Minimum type-size of warnings</i>
not exceeding 200 millilitres . . . . .	20 millimetres	6-point
greater than 200 millilitres but not exceeding 1 litre . . . . .	30 millimetres	8-point
greater than 1 litre but not exceeding 5 litres	40 millimetres	12-point
greater than 5 litres but not exceeding 25 litres	60 millimetres	18-point
greater than 25 litres . . . . .	80 millimetres	18-point;

(d) the container or its label bears, in close proximity to the triangle, in letters printed from type no smaller, in relation to the capacity of the container, than that specified in paragraph (c)—

- (i) the name and business address of the manufacturer, packer, distributor or seller, as the case may be, responsible for packing and labelling the group III hazardous substance; and
- (ii) the chemical or common name and the percentage, on a mass in mass, mass in volume or volume in volume basis, of each substance, specified in column 1 of the First Schedule, in the container; and
- (iii) any necessary precautionary measures to be observed in handling, storing and using the substance to ensure that the health of human beings or animals, birds or fishes is not endangered; and
- (iv) any necessary instructions regarding spillage and the safe disposal or use of the empty container; and
- (v) the toxic or other harmful effects, where applicable; and
- (vi) first-aid treatment, where applicable; and
- (vii) the name of the specific antidote, if any:

Provided that—

- (i) the information referred to in this paragraph, other than subparagraph (vii), need not be in capital letters or bold-face type;
- (ii) where the requirements of this paragraph require more space than is reasonably avail-

able on the container, the prescribed type-size may be reduced to that prescribed for the container in the range of capacities which is next smaller in size, but in no case to a size smaller than six-point;

(iii) the requirements of subparagraph (i) need not be in close proximity to the triangle;

(iv) where the sole hazard of a substance is that it is extremely flammable or flammable, the requirements of subparagraph (ii) need not be complied with;

(e) the colour of the triangle and any words required to appear on a container or label by this section are in distinct contrast to their background.

(2) In the case of a mixture of substances specified in column one of the First Schedule, the warnings prescribed in column two of the First Schedule for each of the substances in the mixture shall appear immediately below the base of the triangle:

Provided that, where two or more warnings prescribed for the substance in the mixture relate to the same nature of hazard, the warning prescribed for the substance with the greatest degree of hazard only shall appear.

(3) For the purpose of subsection (2), "nature of hazard" means the toxic, corrosive, irritant, sensitizing or flammable properties of a substance.

(4) Any person who stores a substance or mixture of substances specified in column one of the First Schedule, whether for supply to other persons or for his own use, shall comply with the provisions of subsections (1) and (2), unless he displays prominently, either on the container or in the immediate vicinity of the container, notices which clearly indicate the name of the substance and the nature of the hazards involved in exposure to the substance, and any necessary precautions and first-aid treatment.

(5) Notwithstanding the provisions of subsections (1) to (4), a substance imported for use only by the importer or for sale by the importer in its original container shall be deemed to comply with

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the provisions of this section if it is labelled with symbols and warnings in English, in accordance with laws in force in the country of export.

(6) The Board may direct the seller of any group III hazardous substance specified in the First Schedule, or any person referred to in subsection (4) or (5), to—

- (a) provide such information as it may require concerning any labelling required by this section;
- (b) alter any labelling if, in its opinion, the information provided is inaccurate or incorrect or incomplete or does not comply with the provisions of this section.

(7) Any person who considers that any substance specified in column one of the First Schedule should be exempted from compliance with any requirement of this section because of the size of the container, the physical composition of the substance, the circumstances in which the substance is used or the minor hazard presented by the substance, or for other good and sufficient reason, may submit to the Board an application for exemption, giving grounds for the support of his contention that compliance is impracticable or not necessary for the protection of the health of human beings, animals, birds or fishes, and, on the basis of such facts and any other information which may be available to it, the Board may grant or refuse such an exemption.

(8) Notwithstanding anything herein contained, the Board may grant exemption from one or more of the provisions of this section for such period as it may deem necessary, and subject to such conditions as it may deem fit to impose, and may withdraw any exemption so granted.

*Packaging*

5. (1) No person shall pack any substance specified in column one of the First Schedule in a container unless the container and its closure—

- (a) will not react chemically or physically with the substance which it is to contain; and
- (b) is of sufficient strength, under the ordinary risks of handling and transport, to prevent the escape of any of its contents.

(2) The Board may direct the seller of any substance listed in column one of the First Schedule to submit for its inspection and approval the container of such substance.

*Transportation*

6. Where an outer container of one or more group III hazardous substances, each labelled as required by section 4, is consigned for conveyance by public transport by road, the provisions of section 4 shall be deemed to have been complied with if the outer container bears a red equilateral triangle within which is a skull and cross-bones symbol in black and below which are the warnings "POISON", "CORROSIVE", "FLAMMABLE", "AVOID CONTACT WITH COMBUSTIBLE MATERIAL" or "DANGEROUS WHEN WET", as appropriate to the hazardous substances in the container, in a colour contrasting with its background, all of such size as to be conspicuous.

*Precautions to be taken by users and repackers*

7. (1) No person shall use any substance specified in column one of the First Schedule, or open the container and repack such a substance in any other container, unless he ensures that—

- (a) all persons involved take all the necessary precautions in the handling of that substance, including the wearing of appropriate protective clothing; and
- (b) appropriate measures are taken for the safety of any other person who may be at risk from exposure to that substance; and
- (c) there are immediately available all the requirements for the administration of the appropriate first-aid treatment, and that there is a person capable of taking, and immediately available to take, the necessary action in the event of an accident.

(2) Every person storing any substance specified in column one of the First Schedule for sale or use shall ensure that it is stored in such a manner that it does not present a hazard to any human being or animal, and shall comply with the provisions of paragraph (c) of subsection (1).

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*Notification to Licensing Officer*

8. Any person who imports, manufactures, sells or uses a substance specified in the Second Schedule but not specified in the First Schedule shall immediately notify the Licensing Officer, and shall provide all such information concerning the substance as may be required by the Licensing Officer.

*Offences and penalties*

9. (1) Any person who
- (a) contravenes any of the provisions of these regulations; or
  - (b) causes a hazard to the health of any human being or any animal, bird or fish by failing to exercise all reasonable care in the manufacture, handling, conveyance, storage, use or disposal of any substance specified in column one of the First Schedule;

shall be guilty of an offence.

(2) Any person who is convicted of an offence referred to in subsection (1) shall be liable to a fine not exceeding one thousand lished in Rhodesia Government Notice 918 of 1975, and the Control or to both such fine and imprisonment.

*Repeals*

10. The Control of Goods (Poisons) Regulations, 1975, published in Rhodesia Government Notice 918 of 1975, and the Control of Goods (Poisons) (Amendment) Regulations, 1976 (No. 1), published in Rhodesia Government Notice 18 of 1976, are repealed.



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FIRST SCHEDULE (Section 4)

LABELLING OF GROUP III HAZARDOUS SUBSTANCES

PART I	
<i>Column 1</i>	<i>Column 2</i>
GROUP III HAZARDOUS SUBSTANCES	WARNINGS
<b>FLAMMABLE GASES</b>	<b>EXTREMELY FLAMMABLE KEEP AWAY FROM HEAT, NAKED FLAME AND SPARKS</b>
<b>FLAMMABLE LIQUIDS</b>	
flammable liquids having a flash-point of—	
(a) nought degrees Celsius or below	<b>EXTREMELY FLAMMABLE KEEP AWAY FROM HEAT, NAKED FLAME AND SPARKS</b>
(b) more than nought degrees Celsius but not more than thirty degrees Celsius	<b>FLAMMABLE KEEP AWAY FROM HEAT, NAKED FLAME AND SPARKS</b>
<b>FLAMMABLE SOLID</b>	<b>FLAMMABLE SOLID KEEP AWAY FROM HEAT, NAKED FLAME AND SPARKS</b>

PART II

Substances marked with an asterisk are **FLAMMABLE**. See Part I of this Schedule.

<i>Column 1</i>	<i>Column 2</i>
GROUP III HAZARDOUS SUBSTANCES	WARNINGS
<b>ACETALDEHYDE</b>	
substances containing 20 per centum mass in mass or more of acetaldehyde	<b>DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES</b>
<b>ACETIC ACID</b>	
substances containing 20 per centum mass in mass or more of acetic acid	<b>DANGEROUS POISON CORROSIVE—AVOID CONTACT WITH SKIN AND EYES</b>
<b>ACETIC ANHYDRIDE</b>	
substances containing 20 per centum mass in mass or more of acetic anhydride	<b>DANGEROUS POISON CORROSIVE—AVOID CONTACT WITH SKIN AND EYES</b>
<b>ACRIDINE</b>	
substances containing 20 per centum mass in mass or more of acridine	<b>IRRITANT—AVOID CONTACT WITH SKIN AND EYES</b>
<b>ACROLEIN (acraldehyde)*</b>	
substances containing 10 per centum mass in mass or more of acrolein	<b>DANGEROUS POISON AVOID CONTACT WITH SKIN AND EYES AVOID BREATHING VAPOUR—USE ONLY IN WELL-VENTILATED AREAS</b>

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<i>Column 1</i>	<i>Column 2</i>
GROUP III HAZARDOUS SUBSTANCES	WARNINGS
<b>ALLYL ALCOHOL*</b> substances containing 10 <i>per centum</i> mass in mass or more of allyl alcohol	DANGEROUS POISON AVOID BREATHING VAPOUR IRRITANT—AVOID CONTACT WITH SKIN AND EYES
<b>ALLYL CHLORIDE (3-chloropropene)*</b> substances containing 10 <i>per centum</i> mass in mass or more of allyl chloride	DANGEROUS POISON AVOID BREATHING VAPOUR IRRITANT—AVOID CONTACT WITH SKIN AND EYES
<b>AMMONIA SOLUTION</b> substances containing 10 <i>per centum</i> mass in mass or more of ammonia (NH <sub>3</sub> )	DANGEROUS POISON AVOID BREATHING VAPOUR CORROSIVE—AVOID CONTACT WITH SKIN AND EYES
<b>ANILINE</b> substances containing 20 <i>per centum</i> mass in mass or more of aniline	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>ANTIMONY COMPOUNDS (other than antimony potassium tartarate and anti- mony compounds in paint, lacquer, varnish or any other similar substance)</b> substances containing 20 <i>per centum</i> mass in mass or more of antimony	DANGEROUS POISON AVOID CONTACT WITH ACIDS— EVOLVES POISONOUS GAS AVOID CONTACT WITH SKIN AND EYES
<b>ANTIMONY POTASSIUM TARTARATE</b> substances containing 1 <i>per centum</i> mass in mass or more of antimony potassium tartarate	DANGEROUS POISON AVOID CONTACT WITH ACIDS— EVOLVES POISONOUS GAS AVOID CONTACT WITH SKIN AND EYES
<b>BROMATES (solids)</b> substances containing 10 <i>per centum</i> mass in mass or more of a bromate	AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE
<b>BUTYLAMINES*</b> substances containing 20 <i>per centum</i> mass in mass or more of a butylamine	DANGEROUS POISON AVOID BREATHING VAPOUR
<b>BUTYL TOLUENES</b> substances containing 20 <i>per centum</i> mass in mass or more of a butyl toluene	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>CALCIUM CARBIDE</b>	DANGEROUS WHEN WET—EVOLVES FLAMMABLE GAS

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<i>Column 1</i>	<i>Column 2</i>
GROUP III HAZARDOUS SUBSTANCES	WARNINGS
<b>CALCIUM HYPOCHLORITE (solids)</b> substances containing more than 8,8 per centum mass in mass of available oxygen (39 per centum mass in mass of available chlorine)	AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE AVOID CONTACT WITH ACIDS— EVOLVES VERY POISONOUS GAS HARMFUL IF SWALLOWED
<b>CATECHOL</b> substances containing 10 per centum mass in mass or more of catechol	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>CHLORATES (solids)</b> substances containing 10 per centum mass in mass or more of a chlorate	AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE
<b>CHLORINATED DIPHENYLS (PCBs)</b> substances containing 10 per centum mass in mass or more of a chlorinated diphenyl	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>CHLORITES (solids)</b> substances containing 10 per centum mass in mass or more of a chlorite	AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE
<b>CHLOROANILINES</b> substances containing 20 per centum mass in mass or more of a chloroaniline	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>CHLOROBENZENE*</b> substances containing 20 per centum mass in mass or more of chlorobenzene	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>CHLOROFORM (trichloromethane)</b> substances containing 10 per centum mass in mass or more of chloroform	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>CHROMATES (solids)</b> substances containing 20 per centum mass in mass or more of a chromate	DANGEROUS POISON AVOID BREATHING DUST AVOID CONTACT WITH SKIN AND EYES
<b>CHROMIC ACID</b> substances containing 10 per centum mass in mass or more of chromic acid	DANGEROUS POISON AVOID BREATHING DUST CORROSIVE—AVOID CONTACT WITH SKIN AND EYES AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE

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<b>GROUP III HAZARDOUS SUBSTANCES</b>	<b>WARNINGS</b>
<b>CRESOLS</b> [cresylic acid, (o-cresol, m-cresol, p-cresol)]	
substances containing 10 per centum mass in mass or more of a cresol	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b> <b>CORROSIVE—AVOID CONTACT WITH SKIN AND EYES</b>
<b>CUMENE</b> (isopropylbenzene)	
substances containing 20 per centum mass in mass or more of cumene	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>
<b>DIACETONE ALCOHOL</b>	
substances containing 20 per centum mass in mass or more of diacetone alcohol	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b>
<b>DICHLOROETHYL ETHER</b>	
substances containing 10 per centum mass in mass or more of dichloroethyl ether	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b> <b>USE ONLY IN WELL-VENTILATED AREAS</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>
<b>DICHLOROSOCYANURIC ACID</b> and its salts (solids)	
substances containing 39 per centum mass in mass or more of available chlorine	<b>AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE</b> <b>HARMFUL IF SWALLOWED</b>
<b>DICHLOROPROPANE*</b>	
substances containing 10 per centum mass in mass or more of dichloropropane	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b> <b>USE ONLY IN WELL-VENTILATED AREAS</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>
<b>DICHROMATES</b> (solids)	
substances containing 10 per centum mass in mass or more of a dichromate	<b>AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE</b> <b>DANGEROUS POISON</b> <b>AVOID BREATHING DUST</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>
<b>DIETHYLAMINE*</b>	
substances containing 10 per centum mass in mass or more of diethylamine	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>
<b>DI ISOPROPYLAMINE*</b>	
substances containing 10 per centum mass in mass or more of di isopropylamine	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>
<b>N.N. DIMETHYLANILINE</b>	
substances containing 20 per centum mass in mass or more of N.N. dimethylaniline	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>

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GROUP III HAZARDOUS SUBSTANCES	WARNINGS
<b>DINITROBENZENES</b> substances containing 10 <i>per centum</i> mass in mass or more of a dinitrobenzene	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>DINITROPHENOLS</b> substances containing 10 <i>per centum</i> mass in mass or more of a dinitrophenol	DANGEROUS POISON AVOID BREATHING DUST AVOID CONTACT WITH SKIN AND EYES
<b>DINITROTOLUENES</b> substances containing 10 <i>per centum</i> mass in mass or more of a dinitrotoluene	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>DIOXAN (diethylene oxide)*</b> substances containing 20 <i>per centum</i> mass in mass or more of dioxan	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>DIPHENYL</b> substances containing 10 <i>per centum</i> mass in mass or more of diphenyl	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>EPICHLOROHYDRIN</b> substances containing 5 <i>per centum</i> mass in mass or more of epichlorohydrin	DANGEROUS POISON AVOID BREATHING VAPOUR SENSITIZER—AVOID CONTACT WITH SKIN AND EYES
<b>ETHYLAMINE*</b> substances containing 10 <i>per centum</i> mass in mass or more of ethylamine	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>ETHYL BENZENE*</b> substances containing 20 <i>per centum</i> mass in mass or more of ethyl benzene	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>ETHYL ETHER* (diethyl ether, ether)</b> substances containing 20 <i>per centum</i> mass in mass or more of ethyl ether	AVOID BREATHING VAPOUR POISON
<b>ETHYLENE AMINES</b> including ethylenediamine diethylenetriamine triethylenetetramine triethylenepentamine triethylenhexamine substances containing 1 <i>per centum</i> mass in mass or more of an ethylene amine	IRRITANT STRONG SENSITIZER—AVOID CONTACT WITH SKIN AND EYES AVOID BREATHING VAPOUR

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GROUP III HAZARDOUS SUBSTANCES	WARNINGS
<b>ETHYLENE DICHLORIDE*</b> substances containing 10 per centum mass in mass or more of ethylene dichloride	DANGEROUS POISON AVOID BREATHING VAPOUR
<b>ETHYL SULPHATE</b> substances containing 10 per centum mass in mass or more of ethyl sulphate	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>FLUORIDES (inorganic compounds)</b> substances containing 10 per centum mass in mass or more of a fluoride	
solids	DANGEROUS POISON AVOID CONTACT WITH ACIDS— EVOLVES POISONOUS GAS AVOID BREATHING DUST
liquids	DANGEROUS POISON CORROSIVE—AVOID CONTACT WITH SKIN AND EYES
<b>FLUOSILICATES</b> substances containing 20 per centum mass in mass or more of a fluosilicate	DANGEROUS POISON AVOID BREATHING DUST AVOID CONTACT WITH SKIN AND EYES
<b>FORMALDEHYDE solution</b> substances containing 5 per centum mass in mass or more of formaldehyde (HCHO)	DANGEROUS POISON IRRITANT VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>FORMIC ACID</b> substances containing 10 per centum mass in mass or more of formic acid	CORROSIVE—AVOID CONTACT WITH SKIN AND EYES IRRITANT VAPOUR
<b>FURFURAL</b> substances containing 20 per centum mass in mass or more of furfural	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>HEXACHLORONAPHTHALENE</b> substances containing 10 per centum mass in mass or more of hexachloronaphthalene	DANGEROUS POISON AVOID BREATHING VAPOUR OR DUST AVOID CONTACT WITH SKIN AND EYES
<b>HYDRAZINE and its compounds</b> substances containing 10 per centum mass in mass or more of hydrazine or of a compound of hydrazine	DANGEROUS POISON AVOID BREATHING VAPOUR CORROSIVE—AVOID CONTACT WITH SKIN AND EYES
<b>HYDROCHLORIC ACID</b> substances containing 10 per centum mass in mass or more of hydrogen chloride (HCl)	DANGEROUS POISON CORROSIVE—AVOID CONTACT WITH SKIN AND EYES

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GROUP III HAZARDOUS SUBSTANCES	WARNINGS
<b>HYDROGEN PEROXIDE</b>	
substances containing 40 per centum mass in mass or more of hydrogen peroxide	CORROSIVE—AVOID CONTACT WITH SKIN AND EYES AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE
substances containing less than 40 per centum mass in mass but 8 per centum mass in mass or more of hydrogen peroxide	AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE AVOID CONTACT WITH SKIN AND EYES
<b>HYDROGEN SULPHIDE*</b>	DANGEROUS POISON AVOID BREATHING GAS AVOID CONTACT WITH SKIN AND EYES
<b>HYDROQUINONE</b>	
substances containing 20 per centum mass in mass or more of Hydroquinone	DANGEROUS POISON AVOID BREATHING VAPOUR OR DUST AVOID CONTACT WITH SKIN AND EYES
<b>HYPOCHLORITES (solids)</b>	
substances containing more than 8,8 per centum mass in mass of available oxygen (39 per centum mass in mass of available chlorine)	AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE AVOID CONTACT WITH ACIDS— EVOLVES VERY POISONOUS GAS HARMFUL IF SWALLOWED
<b>IODINE</b>	
substances containing 10 per centum mass in mass or more of iodine	DANGEROUS POISON AVOID BREATHING VAPOUR
<b>ISOCYANATES (including methylene bis di-isocyanate (M D I) and toluene di-isocyanate (TDI))</b>	
substances containing 1 per centum mass in mass or more of an isocyanate	DANGEROUS POISON AVOID BREATHING VAPOUR SENSITIZER—AVOID CONTACT WITH SKIN AND EYES
<b>ISOPHORONE</b>	
substances containing 20 per centum mass in mass or more of isophorone	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>ISOPROPYL ETHER*</b>	
substances containing 20 per centum mass in mass or more of isopropyl ether	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>LEAD COMPOUNDS</b>	
(other than lead compounds in paint, lacquer, varnish or other similar substance)	
substances containing 5 per centum mass in mass or more of lead	DANGEROUS POISON AVOID BREATHING DUST

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<i>Column 1</i>	<i>Column 2</i>
GROUP III HAZARDOUS SUBSTANCES	WARNINGS
<b>MALEIC ANHYDRIDE</b> substances containing 10 per centum mass in mass or more of maleic anhydride	DANGEROUS POISON AVOID BREATHING VAPOUR/DUST
<b>MESITYL OXIDE</b> substances containing 10 per centum mass in mass or more of mesityl oxide	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>METHYL ACRYLATE*</b> substances containing 10 per centum mass in mass or more of methyl acrylate	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>METHYL ALCOHOL*</b> substances containing 10 per centum mass in mass or more of methyl alcohol	DANGEROUS POISON AVOID BREATHING VAPOUR USE ONLY IN WELL-VENTILATED AREAS AVOID CONTACT WITH SKIN AND EYES
<b>METHYLAMINE GAS*</b>	DANGEROUS POISON AVOID BREATHING GAS
<b>METHYLAMINE SOLUTIONS*</b> substances containing 10 per centum mass in mass or more of methylamine	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>METHYL ANILINE</b> substances containing 20 per centum mass in mass or more of methyl aniline	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>METHYL CHLORIDE*</b>	DANGEROUS POISON AVOID BREATHING GAS AVOID CONTACT WITH SKIN AND EYES
<b>METHYL ETHYL KETONE PEROXIDE</b> substances containing 10 per centum mass in mass or more of methyl ethyl ketone peroxide	AVOID CONTACT WITH COMBUSTIBLE MATERIALS--ASSISTS FIRE POISON CORROSIVE--AVOID CONTACT WITH SKIN AND EYES
<b>METHYL FORMATE*</b> substances containing 20 per centum mass in mass or more of methyl formate	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>METHYL IODIDE</b> substances containing 20 per centum mass in mass or more of methyl iodide	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES



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GROUP III HAZARDOUS SUBSTANCES	WARNINGS
<b>METHYL ISOBUTYL KETONE*</b> substances containing 20 per centum mass in mass or more of methylisobutylketone	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>METHYL SULPHATE</b> substances containing 10 per centum mass in mass or more of methyl sulphate	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>METHYLENE CHLORIDE</b> substances containing 20 per centum mass in mass or more of methylene chloride	DANGEROUS POISON AVOID BREATHING VAPOUR USE ONLY IN WELL-VENTILATED AREAS
<b>MORPHOLINE</b> substances containing 25 per centum mass in mass or more of morpholine	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>NITRATES (solids)</b> substances containing 10 per centum mass in mass or more of a nitrate	AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE
<b>NITRIC ACID</b> substances containing 70 per centum mass in mass or more of nitric acid	DANGEROUS POISON CORROSIVE—AVOID CONTACT WITH SKIN AND EYES AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE
substances containing less than 70 per centum mass in mass but 10 per centum mass in mass or more of nitric acid	DANGEROUS POISON CORROSIVE—AVOID CONTACT WITH SKIN AND EYES
<b>NITRITES (solids)</b> substances containing 10 per centum mass in mass or more of a nitrite	AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE
<b>NITROANILINES</b> substances containing 10 per centum mass in mass or more of a nitroaniline	DANGEROUS POISON AVOID BREATHING DUST AVOID CONTACT WITH SKIN AND EYES
<b>NITROBENZENE</b> substances containing 10 per centum mass in mass or more of nitrobenzene	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>NITROCELLULOSE (dry)</b>	FLAMMABLE SOLID
<b>NITROCELLULOSE (wet)</b>	EXPLOSIVE
<b>NITROETHANE*</b> substances containing 10 per centum mass in mass or more of nitroethane	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES

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GROUP III HAZARDOUS SUBSTANCES	WARNINGS
<b>NITROPHENOLS</b> substances containing 20 per centum mass in mass or more of a nitrophenol	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>OXALIC ACID, OXALATES</b> substances containing 20 per centum mass in mass or more of oxalic acid or of an oxalate	DANGEROUS POISON AVOID BREATHING DUST CORROSIVE—AVOID CONTACT WITH SKIN AND EYES
<b>PARAFORMALDEHYDE</b> substances containing 20 per centum mass in mass or more of paraformaldehyde	DANGEROUS POISON AVOID BREATHING DUST AVOID CONTACT WITH SKIN AND EYES
<b>PENTACHLORONAPHTHALENE</b> substances containing 20 per centum mass in mass or more of pentachloronaphthalene	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>PENTACHLOROPHENOL</b> substances containing less than 25 per centum mass in mass but 1 per centum mass in mass or more of pentachlorophenol	DANGEROUS POISON AVOID BREATHING DUST AVOID CONTACT WITH SKIN AND EYES
<b>PERBORATES</b> substances containing 10 per centum mass in mass or more of a perborate	AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE
<b>PERCHLORATES (solids)</b> substances containing 10 per centum mass in mass or more of a perchlorate	AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE—EXPLOSIVE POISON
<b>PERCHLORIC ACID</b> substances containing 50 per centum mass in mass or more of perchloric acid	AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE DANGEROUS POISON CORROSIVE—AVOID CONTACT WITH SKIN AND EYES
substances containing less than 50 per centum mass in mass but 10 per centum mass in mass or more of perchloric acid	DANGEROUS POISON CORROSIVE—AVOID CONTACT WITH SKIN AND EYES
<b>PERCHLOROETHYLENE</b> (tetrachloroethylene) substances containing 50 per centum mass in mass or more of perchloroethylene	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>PERMANGANATES (solids)</b> substances containing 10 per centum mass in mass or more of a permanganate	AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE POISON

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<b>GROUP III HAZARDOUS SUBSTANCES</b>	<b>WARNINGS</b>
<b>PEROXIDES</b> (organic and inorganic) <i>substances containing 10 per centum mass in mass or more of a peroxide</i>	<b>AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>
<b>PERSULPHATES</b> (solids) <i>substances containing 10 per centum mass in mass or more of a persulphate</i>	<b>AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE</b>
<b>PHENOLS</b> (including amyl phenol, benzyl chlorophenol, carvacrol, chorophenols, guaiacol, hexachlorophene, hexylresorcinol, menthol, naphthol, phenol, pyrogallol, resorcinol, thiocresol and thymol) <i>substances containing 10 per centum mass in mass or more of a phenol</i>	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b> <b>CORROSIVE—AVOID CONTACT WITH SKIN AND EYES</b>
<b>PHENYLENE DIAMINES</b> <i>substances containing 1 per centum mass in mass or more of a phenylene diamine</i>	<b>SENSITIZER—AVOID CONTACT WITH SKIN AND EYES</b> <b>POISON</b>
<b>PHENYL HYDRAZINE</b> <i>substances containing 5 per centum mass in mass or more of phenyl hydrazine</i>	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>
<b>PHOSPHORIC ACID</b> <i>substances containing 50 per centum mass in mass or more of phosphoric acid</i>	<b>CORROSIVE—AVOID CONTACT WITH SKIN AND EYES</b> <b>POISON</b>
<b>PICRIC ACID, PICRATES</b> <i>(dry or wet, with less than 10 per centum mass in mass of water)</i>	<b>FLAMMABLE SOLID</b> <b>EXPLOSIVE</b> <b>AVOID SHOCK AND FRICTION</b> <b>KEEP AWAY FROM HEAT, NAKED FLAME AND SPARKS</b> <b>DANGEROUS POISON</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>
<b>PICRIC ACID, PICRATES</b> <i>(wet, with more than 10 per centum mass in mass but less than 35 per centum mass in mass of water)</i>	<b>FLAMMABLE SOLID</b> <b>KEEP AWAY FROM HEAT, NAKED FLAME AND SPARKS</b> <b>DANGEROUS POISON</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>
<b>PIPERIDINE*</b> <i>substances containing 10 per centum mass in mass or more of piperidine</i>	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>

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<b>POTASSIUM HYDROXIDE</b> substances containing 10 per centum mass in mass or more of potassium hydroxide	<b>DANGEROUS POISON</b> <b>CORROSIVE—AVOID CONTACT WITH</b> <b>SKIN AND EYES</b>
<b>PROPYLENE OXIDE*</b> substances containing 20 per centum mass in mass or more of propylene oxide	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b>
<b>PYRROLIDINE*</b> substances containing 20 per centum mass in mass or more of pyrrolidine	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>
<b>QUINOLINE</b> substances containing 20 per centum mass in mass or more of quinoline	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>
<b>QUINONE (benzoquinone)</b> substances containing 10 per centum mass in mass or more of quinone	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>
<b>SELENIUM and its COMPOUNDS</b> substances containing 10 per centum mass in mass or more of selenium	<b>DANGEROUS POISON</b> <b>AVOID BREATHING DUST</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>
<b>SODIUM HYDROXIDE</b> substances containing 10 per centum mass in mass or more of sodium hydroxide	<b>DANGEROUS POISON</b> <b>CORROSIVE—AVOID CONTACT WITH</b> <b>SKIN AND EYES</b>
<b>STYRENE (phenyl ethylene)</b> substances containing 10 per centum mass in mass or more of styrene	<b>DANGEROUS POISON</b> <b>AVOID CONTACT WITH SKIN AND EYES</b> <b>AVOID BREATHING VAPOUR</b>
<b>SULPHURIC ACID (except sulphuric acid in batteries)</b> substances containing 10 per centum mass in mass or more of sulphuric acid	<b>DANGEROUS POISON</b> <b>CORROSIVE—AVOID CONTACT WITH</b> <b>SKIN AND EYES</b>
<b>TETRACHLORONAPHTHALENE</b> substances containing 20 per centum mass in mass or more of tetrachloronaphtha- lene	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>
<b>TETRAHYDROFURAN*</b> substances containing 20 per centum mass in mass or more of tetrahydrofuran	<b>DANGEROUS POISON</b> <b>AVOID BREATHING VAPOUR</b> <b>AVOID CONTACT WITH SKIN AND EYES</b>

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GROUP III HAZARDOUS SUBSTANCES	WARNINGS
<b>THIOGLYCOLLIC ACID</b> substances containing 20 per centum mass in mass or more of thioglycollic acid	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>o-TOLIDINE</b> and salts of o-tolidine (2,2 dimethylbenzidine) substances containing 1 per centum mass in mass or more of o-tolidine or of a salt of o-tolidine	DANGEROUS POISON HARMFUL BY SKIN ABSORPTION CARCINOGENIC
<b>TOLUENE*</b> substances containing 20 per centum mass in mass or more of toluene	DANGEROUS POISON AVOID BREATHING VAPOUR USE ONLY IN WELL-VENTILATED AREAS
<b>TRICHLOROBENZENE</b> substances containing 20 per centum mass in mass or more of trichlorobenzene	DANGEROUS POISON AVOID BREATHING VAPOUR
<b>TRICHLOROETHANES</b> substances containing 20 per centum mass in mass or more of a trichloroethane	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>TRICHLOROETHYLENE</b> substances containing 20 per centum mass in mass or more of trichloroethylene	DANGEROUS POISON AVOID BREATHING VAPOUR USE ONLY IN WELL-VENTILATED AREAS
<b>TRICHLOROISOCYANURIC ACID</b> and its salts (solids) substances containing 39 per centum mass in mass or more of available chlorine	AVOID CONTACT WITH COMBUSTIBLE MATERIALS—ASSISTS FIRE POISON
<b>TRICRESYL PHOSPHATE</b> substances containing 20 per centum mass in mass or more of tricresyl phosphate	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>TRIETHYLAMINE*</b> substances containing 20 per centum mass in mass or more of triethylamine	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>TRIMETHYLBENZENE</b> (all isomers) substances containing 20 per centum mass in mass or more of trimethyl benzene	DANGEROUS POISON AVOID BREATHING VAPOUR USE ONLY IN WELL-VENTILATED AREAS

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<b>TRIPHENYL PHOSPHATE</b>	
substances containing 20 per centum mass in mass or more of triphenyl phosphate	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>VINYL CHLORIDE (monomer)</b>	
substances containing 1 per centum mass in mass or more of vinyl chloride	DANGEROUS POISON CARCINOGENIC AVOID BREATHING VAPOUR—USE ONLY IN WELL-VENTILATED AREAS AVOID CONTACT WITH SKIN AND EYES
<b>VINYLDENE CHLORIDE*</b>	
substances containing 10 per centum mass in mass or more of vinyldene chloride	DANGEROUS POISON AVOID BREATHING VAPOUR AVOID CONTACT WITH SKIN AND EYES
<b>XYLENES*</b>	
substances containing 20 per centum mass in mass or more of a xylene	DANGEROUS POISON AVOID BREATHING VAPOUR USE ONLY IN WELL-VENTILATED AREAS
<b>XYLIDINE</b>	
substances containing 20 per centum mass in mass or more of xylidine	DANGEROUS POISON AVOID CONTACT WITH SKIN AND EYES AVOID BREATHING VAPOUR USE ONLY IN WELL-VENTILATED AREAS

SECOND SCHEDULE (Section 8)

GROUP III HAZARDOUS SUBSTANCES

*Toxic substances*

Substances containing or consisting of toxic substances not specified in the First Schedule—

(a) having—

- (i) an acute oral LD<sub>50</sub> of less than 500 mg/kg of body-mass;
- (ii) an acute dermal LD<sub>50</sub> of less than 1000 mg/kg of body-mass;
- (iii) an acute inhalation LC<sub>50</sub> of less than 2 g/m<sup>3</sup>/4 h.

In establishing the oral or inhalation toxicity of a substance, the rat is regarded as the preferred species, and, in the case of dermal toxicity, the rabbit;

(b) concerning which there is evidence that, if ingested, absorbed through the skin or inhaled by man, cancer may be induced.

*Corrosive substances*

Substances containing or consisting of corrosive substances not specified in the First Schedule.

*Irritant substances*

Substances containing or consisting of irritant substances not specified in the First Schedule.

*Sensitizing substances*

Substances containing or consisting of sensitizing substances not specified in the First Schedule.

THIRD SCHEDULE (Section 4)

EXEMPTED GROUP III HAZARDOUS SUBSTANCES

Ink in rigid or semi-rigid ball-point ink-cartridges.

Ink in porous-tipped ink-marking devices in which the ink is held by an absorbent material so that there is no free liquid within the device.

Dry ink intended for use as a liquid ink after the addition of water, provided that the dry ink concentrate in a single container does not have a mass greater than 100 milligrams.

Car, furniture, floor and other wax polishes in respect of solvents, provided that the viscosity of such products is such that they will not flow from their opened containers when inverted for five minutes at 30 degrees Celsius.

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Polishing or cleaning products which consist of a carrier of solid, particulate or fibrous composition in respect of solvents if such solvents are fully absorbed by the solid, semi-solid, or fibrous carrier.

Liquid and semi-solid viscous substances, such as paints, varnishes, lacquers, roof-coatings, vulcanizing preparations, adhesives, glazing compounds and other viscous products in respect of solvents if the viscosity of the substance or any liquid which may separate or be present in the container is not less than 20 centistokes (100 Saybolt universal seconds) at 36 degrees Celsius.

Petroleum distillates when sold for use as a fuel in internal-combustion engines.

Substances when in containers which are installed as part of the heating, cooling or refrigeration system of a building.

FOURTH SCHEDULE (Section 2)

FLAMMABILITY OF AEROSOLS (FLAME-PROJECTION TEST)

*Equipment required*

The test equipment of a base 200 millimetres wide and at least 600 millimetres long marked in 150 millimetre intervals. A rule 600 millimetres long and marked in millimetres is supported horizontally on the side of the base and about 150 millimetres above it. A paraffin candle 25 millimetres or more in diameter, and of such height that the top third of the flame is at the height of the horizontal rule, is placed at the zero-point in the base.

*Procedure*

The test is conducted in a draft-free area which can be ventilated and cleared after each test. Place the self-pressurized container at a distance of 150 millimetres from the flame source. Depress the container valve fully and spray for periods of 15 seconds to 20 seconds (one observer noting the extension of the flame and the other operating the container) through the top third of the flame and at a right-angle to the flame. The height of the flame should be approximately 50 millimetres. Take three readings for each test, and average.

As a precaution, do not spray large quantities in a small, confined space. Free space of previously discharged material.