

R43 May cause sensitization by skin contact.
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Safety Phrase (s) S20 When using do not eat or drink.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S38 If insufficient ventilation, wear suitable respiratory equipment.
 S23(2) Do not breathe vapour.
 S24/25 Avoid contact with skin and eyes.
 S29/56 Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Sensitization of Product May cause sensitisation by skin contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Isophorone diamine	2855-13-2	30-60 %
	Benzyl Alcohol	100-51-6	30-60 %
	Bisphenol A	80-05-7	1-9 %
	1,5-pentanediamine, 2-methyl	15520-10-2	1-9 %

4. FIRST AID MEASURES

Inhalation Remove the source of contamination or move the victim to fresh air. Ensure airways are clear, if breathing is difficult have qualified person give oxygen through a face mask. If not breathing apply artificial respiration. Seek immediate medical attention.

Ingestion Do not induce vomiting. Give 1-2 glasses of water to drink. In case of spontaneous vomiting, be sure that vomit can drain freely. Give nothing by mouth to an unconscious person. Seek immediate medical attention.

Skin Remove contaminated clothing. Wash affected skin areas with soap and water. Do not use solvents. If irritation persists seek medical attention.

Eye If contact with the eyes occurs, wash with copious amounts of water for at least 15 minutes holding eyelids open. Take care not to rinse contaminated water into the non-affected eye. Seek medical attention.

First Aid Facilities Eye wash fountains and safety showers should be easily accessible.

Advice to Doctor Treat symptomatically, for advice, contact the Poisons Information Centre (Australia 131 126; New Zealand 0800 POISON / 0800 764 766).

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Water mist, foam, carbon dioxide, dry powder.

Specific Methods

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed containers.

Specific Hazards

Product is combustible. Will burn in a general fire.

Hazchem Code

2X

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal

Clear area of all unprotected personnel. Wear appropriate protection equipment. Do not contaminate streams, rivers or water courses. Do not flush drains or sewers. Inform local authority if liquid enters drains, sewers, streams etc. Shut off sources of leak if safe to do so. Dike and contain spill with sand or earth.

MINOR: Absorb the liquid with sand, earth or other inert absorbent. Place used absorbent in suitable, sealable, labelled containers. Keep away from heat, naked flame or sparks.

MAJOR: Take up liquid with vacuum truck or absorb with sand, earth or other inert absorbent. Place used absorbent in suitable, sealable, labelled containers. Keep away from heat, naked flame or sparks.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Keep containers closed when not in use. Ensure a high level of personal hygiene is maintained when using this product. When using do not eat, drink or smoke.

Conditions for Safe Storage

Store in a cool, dry, well-ventilated area away from sources of heat or ignition. This product should be stored away from foodstuffs and strong oxidising agents. Keep containers closed at all times - check regularly for leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National

No exposure standards have been established for this material by

Exposure Standards	the Australian National Occupational Health & Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, over-exposure to any chemical may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.
Engineering Controls	A local and/or general exhaust ventilation system is recommended to keep employee exposures as low as possible. The use of a local exhaust ventilation system (drawing vapours/mists away from workers breathing zone) is preferred.
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapour/mist filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
Eye Protection	Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear laminated film, nitrile or other suitable gloves conforming to AS/NZS 2161: Occupational protective gloves.
Body Protection	Suitable protective workwear should be worn when working with this material, e.g. cotton overalls buttoned at neck and wrist.
Hygiene Measures	Follow good working practice: handle with care, avoid ingestion, inhalation, eye or skin contact. Do not smoke while using this product. Wash hands with soap and water before eating, drinking, smoking or using toilet facilities.
Other Information	If cured product made from this material is cut or sanded, an appropriate dust mask should be worn, together with safety glasses or goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Amber liquid with amine odour.
Melting Point	Not available
Boiling Point	>200°C
Solubility in Water	Not soluble
Specific Gravity	1.0
pH Value	Not applicable
Vapour Pressure	Not available
Evaporation Rate	Not available

Flash Point	112°C
Flammability	Combustible liquid, Class C1.
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Incompatible Materials	Strong oxidising agents, acids, bases and epoxies.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, oxides of nitrogen, ammonia, amines, fumes and smoke.
Hazardous Reactions	Will react with strong acids to produce heat.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	For Isophorone diamine: Oral LD50 (rat): 1990 mg/kg. For benzyl alcohol: Oral LD50 (rat): 1230-1660 mg/kg
Inhalation	Harmful by inhalation. Vapour can cause severe irritation to the respiratory tract. Excessive exposure may result in headache, dizziness, incoordination, fatigue, nausea, loss of appetite and loss of consciousness.
Ingestion	Harmful if swallowed. Product will cause gastric irritation, and burns to digestive tract.
Skin	Harmful in contact with the skin; absorption through skin may cause systemic injury. Also severely irritating in contact with skin. It may cause burns and blisters. It may cause sensitisation by skin contact.
Eye	Risk of serious damage to the eyes. The product is corrosive and severely irritating in contact with the eyes. Permanent corneal damage may result if not washed of immediately.
Chronic Effects	May cause sensitisation in susceptible individuals by skin contact. Allergic response and dermatitis or asthma like

symptoms may occur after a single significant exposure, and sensitisation may occur on a single exposure, or multiple minor exposures.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not available
Persistence / Degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Environment Protection	Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Waste Disposal	Dispose of in accordance with applicable local, state and federal regulations.
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14. TRANSPORT INFORMATION

Transport Information	<p>Australia: This material is a Class 8 Corrosive Substance according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 8 - Corrosive Substances are incompatible in a placard load with any of the following:</p> <ul style="list-style-type: none">- Class 1, Explosives- Class 4.3, Dangerous When Wet Substances- Class 5.1, Oxidising Agents & Class 5.2 - Organic Peroxides- Class 6, Toxic Substances (where the Toxic substances are cyanides and the corrosives are acids),- Class 7, Radioactive Substances <p>and are incompatible with food and food packaging in any quantity.</p> <p>New Zealand: This material is classified as a Class 8 - Corrosive Substance according to NZS 5433:1999 Transport of Dangerous Goods on Land.</p> <p>Class 8 substances must not be loaded in the same freight container or on the same vehicle with:</p> <ul style="list-style-type: none">- (Class 1) Explosives- (Class 5.1) Oxidising substances- (Class 5.2) Organic peroxides- (Class 7) Radioactive materials unless specifically exempted and are incompatible with food and food packaging in any quantity. <p>Note 1; Cyanides (Class 6.1) must not be loaded in the same freight container or on the same vehicle with acids (Class 8).</p>
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Note 2; Strong acids must not be loaded in the same freight container or on the same vehicle with strong alkalis. Packing Group I and II acids and alkalis should be considered as strong. Class 8 substances must not be loaded with in the same freight container; and on the same vehicle must be separated horizontally by at least 3 metres unless all but one are packed in separate freight containers with:

- (Class 4.3) Dangerous when wet substances

Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with:

- (Class 4.3) Dangerous when wet substances
- (Class 5.1) Oxidising substances
- (Class 5.2) Organic peroxides

and are incompatible with food and food packaging in any quantity.

U.N. Number	1760
Proper Shipping Name	CORROSIVE LIQUID, N.O.S. - (CONTAINS: ALIPHATIC AND ALICYCLIC AMINES)
DG Class	8
Hazchem Code	2X
Special Precautions for User	IMDG 8.
Packaging Method	3.8.8
Packing Group	III
EPG Number	8A1
IERG Number	37

15. REGULATORY INFORMATION

Regulatory Information	Poison Schedule (Australia): S5 Poison Schedule (New Zealand): Not Scheduled
Poisons Schedule	S5 S5 ; New Zealand:Not Scheduled
Packaging & Labelling	Class 8 labels in accordance with the Australian Code for the Transport of Dangerous Goods, including Schedule 5 Poison requirements.
Hazard Category	Harmful, Corrosive

16. OTHER INFORMATION

**Date of
preparation or
last revision
of MSDS**

MSDS Review: June 2004
Supersedes: August 1999

**Contact
Person/Point**

Australia: Business Hours: Mr Paul Verren
Telephone: (02) 9839 4024
Emergency Tel: 1800 022 037

New Zealand: Business Hours: Technical Manager
(09) 279 2029
Emergency Tel: 0800 154 666.

IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Nuplex Industries (Aust) Pty Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

End of MSDS

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