

SAFETY DATA SHEET

Parathane Epoxy Primer B Component

Version: 2

Review date: 01/02/2007

91/155/EC (2001/58/EC) - ISO 11014-1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name: Parathane Epoxy Primer B Component

Uses or/and applications: Hardener for epoxidic resins.

Supplier: Icopal SAS
12 Rue de la Renaissance
FR-92184 Antony Cedex
France
Phone: +33 1 40 96 35 00
Fax: +33 1 46 66 24 85
E-mail: contact_fr@icopal.com

Emergency phone number (to be used by the practising doctor): UK - National Poisons Information Service Phone: 44 / 191 22 5131
B - Centre Antipoisons Tél: +32 (0) 70 245 245

2. COMPOSITION / INFORMATION ON INGREDIENTS

Preparation name: Parathane Epoxy Primer B Component

Description of the preparation: Mixture of organic products

Component(s) contributing to the hazard: • 3,6,9,12-tetra-azatetradecamethylenediamine pentactylhexamine - Id No: 612-064-00-2 - CAS no: 4067-16-7 - EC no: 223-775-9
Conc. wt.(%): 1 < C ≤ 5 - Classification: •C; R 34•R 43•N; R 50-53•

3. HAZARDS IDENTIFICATION

Most important hazards: Irritating to eyes and skin.
May cause sensitisation by skin contact.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Specific hazards: none

4. FIRST AID MEASURES

General advice: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: The inhalation is not a way of relevant exposure.

Skin contact: Wash off immediately with soap and plenty of water removing at the same time all contaminated clothes.
If skin irritation persists, take medical advice.

Eye contact: Rinse immediately with plenty of water (during 30 minutes), also under eyelids, taking contact lenses off.
See an ophtalmologist if an irritation occurs.

Ingestion: Rinse mouth, do not drink anything, keep quiet, and go immediately to hospital or to a doctor.
Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: alcohol-resistant foam, carbon dioxide (CO₂), powder.

Extinguishing media which must NOT be used for safety reasons: Do not use water jet.

Specific method(s): Cool closed containers exposed to fire with water spray.
Do not allow run-off from fire fighting to enter drains or water courses.

Specific fire hazard(s): In case of fire, corrosive and harmful gases come free. The wearing of self-rescuers is mandatory.

Special protective equipment for fire-fighters: The port of a self-rescuer is obligatory in the danger zone.

6. ACCIDENTAL RELEASE MEASURES

Personal precaution(s): Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

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- Environmental precaution(s): Do not allow to enter drains or water courses.
If the product enters drains or sewers the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the National Rivers Authority.
- Method(s) for cleaning up: Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth
Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).
Clean preferably with a detergent - Avoid the use of solvents.

7. HANDLING AND STORAGE

Handling

- Precaution(s): Smoking, eating and drinking is prohibited in areas of storage and use.
For personal protection, see Section 8.
The Manual Handling Operations Regulations may apply to the handling of containers of this product. Refer to the guide weight indicated on the container when carrying out assessments.
- Technical condition(s): Never use pressure to empty: the container is not a pressure vessel. Always keep in containers made of the same material as the supply container.
- Safe handling advice(s): Avoid skin and eye contact. Avoid inhalation of vapour and spray mist.

Storage

- Precaution(s): Observe the label precautions.
No smoking. Prevent unauthorised access.
- Storage condition(s): Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.
Store at temperatures between 5°C and 35°C Containers which are opened should be properly resealed and kept upright to prevent leakage.
- Separation of incompatible product(s): Store separately from oxidising agents and strongly alkaline and strongly acidic materials.
- Packaging / tank material: made of the same material as the supply container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measure(s): To protect against splashes from pouring.

Control parameter(s):

- Exposure limit(s): No data available.

Personal protection equipment:

- Respiratory protection: No personal breathing protective equipment is normally required.
- Hand protection: Wear rubber gloves or neoprene gloves
- Skin and body protection: The personnel should wear protective clothing.
- Eye protection: safety glasses with side-shields

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

- Physical state / form: liquid viscous
- Colour: yellow / orange
- Odour: ammoniac-like

Important health, safety and environmental information

- PH: alkaline
- Boiling point/range: Not determined.
- Flash point: 122 °C
- Explosion limits: Not applicable.
- Vapour pressure: Not applicable.
- Relative density (water = 1): 1,0 - 1,12 @ 20°C
- Viscosity: Not determined.

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- Water solubility: partially soluble
- Fat solubility: Not determined.
- Solvent solubility: Soluble in aromatic solvents

10. STABILITY AND REACTIVITY

- Stability: Stable under the recommended storage and handling conditions. (See Section 7).
- Condition(s) to avoid: humid air.
- Material(s) to avoid: Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.
- Hazardous decomposition products: When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, NxOy.

11. TOXICOLOGICAL INFORMATION

- General information(s): There is no data available on the product itself.
- Acute toxicity
- Inhalation: The inhalation is not a way of relevant exposure.
 - Skin contact: May cause skin irritation / dermatitis.
Repeated or prolonged contact may cause skin sensitization.
 - Eyes contact: Splashes in the eyes may cause irritation and reversible local damage.
 - Ingestion: May cause nausea, vomiting, sore throat, stomach-ache and eventually a perforation of the intestine..
- Toxicity of repeated or prolonged exposure: None the components is registered on the I.A.R.C. list for carcinogenic products.
- Further information(s): Irritating to eyes, respiratory system and skin.

12. ECOLOGICAL INFORMATION

- General information(s): There is no data available on the product itself.
The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.
- Environmental toxicity: Ecological problems are not known or expected under normal use.
- Other adverse effects

13. DISPOSAL CONSIDERATIONS

- Waste / unused products: Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.
- Contaminated packaging: Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.
- Further Information(s):

14. TRANSPORT INFORMATION

- General information(s): Transport followed ADR, IMDG, IATA
- UN N°: Not applicable.

15. REGULATORY INFORMATION

- Labelling: According to european directives on classification, packaging and labelling of dangerous substances 1999/45/CE
- EC number: Not applicable.
- Symbol(s): Xi - Irritant ; N - Dangerous for the environment



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| R-phrases(s): | 43 May cause sensitization by skin contact. 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| S-phrases(s): | 2 Keep out of the reach of children. 24/25 Avoid contact with skin and eyes. 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 29 Do not empty into drains. 37/39 Wear suitable gloves and eye/face protection. 46 If swallowed, seek medical advice immediately and show this container or label. 60 This material and its container must be disposed of as hazardous waste. 61 Avoid release to the environment. Refer to special instructions/Safety data sheets. |
| Further information(s): | Contains 3,6,9,12-tetra-azatetradecamethylenediamine pentachylenhexamine. May produce an allergic reaction. |

16. OTHER INFORMATION

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| Item nr 2 : R-phrases(s) | R34 Causes burns. R43 May cause sensitization by skin contact. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| Important remarks: | As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The user is always responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet is based on the present state of knowledge and current national legislation it provides guidance on health safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. |
| Uses or/and applications: | Hardener for epoxidic resins. |
| Restrictions: | The product should not be used for purposes other than those shown in Section 16 without first referring to the supplier and obtaining written handling instructions. |
| - First edition date: | 12/08/2005 |
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| Written by: | TDD/FDS 42 |