

# SAFETY DATA SHEET

## Parathane Mastic

Version: 3

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 Mastic

Uses or/and applications: Single component mastic, for treatment of the cracks.

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 Mastic

Description of the preparation: Mixture of polyurethane oligomers and of solvents.

Component(s) contributing to the hazard: • 4,4#-methylenediphenyl diisocyanate [1]; diphenylmethane-4,4#-diisocyanate [1]; 2,2#-methylenediphenyl diisocyanate [2]; diphenylmethane-2,2#-diisocyanate [2]; o-(p-isocyanatobenzyl)phenyl isocyanate [3]; diphenylmethane-2,4#-diisocyanate [3]; methylene - Id No: 615-005-00-9 - CAS no: 101-68-8  
Conc. wt.(%): 0 < C <= 1 - Classification: •Xn; R20•Xi; R36/37/38•R42/43•  
• Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha  
Conc. wt.(%): 1 < C <= 5 - Symbol(s): Xn - R-phrases(s): 10-65-66

### 3. HAZARDS IDENTIFICATION

Most important hazards: Harmful if swallowed. Irritating to eyes.  
The preparation is a sensitizing of the skin and the breathing apparatus. It is also irritating for the skin and a prolonged contact can increase this effect.

Specific hazards: Contains isocyanates. May cause allergic reactions.

### 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: Wipe with a rag soaked with alcohol. Wash skin with plenty of water and soap. Do NOT use solvents or thinners.  
If skin irritation persists, take medical advice.

Eye contact: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.  
See an ophthalmologist 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, water spray, sand.

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): Fire will produce dense black smoke. Decomposition products may be a hazard to health.  
Appropriate self-contained breathing apparatus may be required.

Special protective equipment for fire-fighters: Wear a self contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

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| 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.   |
| Environmental precaution(s): | Do not allow to enter drains or water courses.<br>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<br>Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).<br>Clean preferably with a detergent - Avoid the use of solvents. |

## 7. HANDLING AND STORAGE

### Handling

- Precaution(s): Avoid any direct contact with the material.  
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.  
Smoking, eating and drinking is prohibited in areas of storage and use.
- Technical condition(s): In the event of use in an insufficiently ventilated zone, set up proper means of extraction of air.  
The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.
- Safe handling advice(s): Keep the container tightly closed. Exclude sources of heat, sparks and open flame. Non-sparking tools should be used.

### 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 0°C and 40°C  
Containers which are opened should be properly resealed and kept upright to prevent leakage.  
Privilege the fast use of started packing.
- 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): The product is used normally and preferably in naturally ventilated places.  
If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn.
- Control parameter(s):
- Exposure limit(s):
  - 4,4#-methylenediphenyl diisocyanate [1]; diphenylmethane-4,4#-diisocyanate [1]; 2,2#-methylenediphenyl diisocyanate [2]; diphenylmethane-2,2#-diisocyanate [2]; o-(p-isocyanatobenzyl)phenyl isocyanate [3]; diphenylmethane-2,4#-diisocyanate [3]; methylene:VME ppm = 0,005 - VME mg/m<sup>3</sup> = 0,051
- Personal protection equipment:
- Respiratory protection: Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit  
Mask with cartridge (organic vapors) or, according to the case, self-rescuer.  
These conditions meet typically only in confined atmosphere.
- Hand protection: polyethylene or polypropylene gloves in combination with fabric under-gloves
- Skin and body protection: Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.
- Eye protection: safety glasses
- Hygiene measure(s): Do not eat, drink, or smoke during work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### General information

- Physical state / form: Viscous paste
- Colour: Different colours may be chosen.
- Odour: characteristic

### Important health,safety and environmental information

- PH: Not applicable.
- Boiling point/range: Not applicable.
- Melting point/range: Not applicable.
- Flash point: Not applicable.
- Explosion limits: Not applicable.
- Relative density (water = 1): 1,2 @ 20°C
- Viscosity: 1000\* 10e-6 m<sup>2</sup>/s
- Water solubility: 0
- Fat solubility: practically not soluble
- Solvent solubility: Soluble while in liquid form - Non soluble once reacted.
- Partition coefficient n-octanol/water: Not determined.

## 10. STABILITY AND REACTIVITY

Stability: Stable under the recommended storage and handling conditions. (See Section 7).  
In its native bucket, the material can be used after 12 months storage.

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: Inhalation may cause asthmatic reactions.
- Skin contact: Prolonged or repeated contact with the skin or mucous membrane may result in irritant symptoms such as redness, blistering or dermatitis. Onset of symptoms may be delayed.
- Eyes contact: Will cause slight eye discomfort, but will not injure eyes.
- Ingestion: Ingestion may lead to severe respiratory difficulties, stimulation of the central nervous system and in extreme cases unconsciousness.

Sensitisation: Cases of allergic skin reaction have been observed.

Toxicity of repeated or prolonged exposure: None the components is registered on the I.A.R.C. list for carcinogenic products.

## 12. ECOLOGICAL INFORMATION

General information(s): There is no data available on the product itself.

Environmental toxicity: Ecological problems are not known or expected under normal use.

Other adverse effects

## 13. DISPOSAL CONSIDERATIONS

Waste / unused products: dry up/thickening

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

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General information(s): Not classified as dangerous in the meaning of transport regulations.

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): Xn - Harmful



R-phrase(s): 42 May cause sensitization by inhalation.  
66 Repeated exposure may cause skin dryness or cracking

S-phrase(s): 2 Keep out of the reach of children.  
23 Do not breathe gas / fumes / vapour / spray.  
37 Wear suitable gloves.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
46 If swallowed, seek medical advice immediately and show this container or label.

Further information(s): Contains isocyanates. See information supplied by the manufacturer. Contains 4,4#-methylenediphenyl diisocyanate [1]; diphenylmethane-4,4#-diisocyanate [1]; 2,2#-methylenediphenyl diisocyanate [2]; diphenylmethane-2,2#-diisocyanate [2]; o-(p-isocyanatobenzyl)phenyl isocyanate [3]; diphenylmethane-2,4#-diisocyanate [3]; methylene. May produce an allergic reaction.

### 16. OTHER INFORMATION

Item nr 2 : R-phrase(s) R20 Harmful by inhalation.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R42/43 May cause sensitization by inhalation and skin contact.  
R10 Flammable.  
R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking

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: Single component mastic, for treatment of the cracks.

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: 10/08/2005

- Previous revision date: 12/08/2005

- Review date: 01/02/2007

- Version: 3

Written by: TDD / FDS 48