

SAFETY DATA SHEET

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

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|---|---|--------------|
| Identification of the substance/preparation | Tapecoat Wet Bond Epoxy Mastic Hardener (International) | |
| Version # | 01 | |
| Issue date | 05-16-2015 | |
| CAS # | Mixture | |
| Manufacturer information | Chase Corporation - Tapecoat Division 1527 Lyons Street Evanston, IL 60201 United States info@chasecorp.com | |
| | General Assistance | 800 543-3458 |
| | Chemtrec (US - 24 hrs) | 800 424-9300 |
| | Chemtrec (INTL - 24 hrs) | 703-527-3887 |

2. HAZARDS IDENTIFICATION

This preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

| | |
|------------------------------|---|
| Classification | C;R35 |
| Physical hazards | Not classified as a physical hazard. |
| Health hazards | Causes severe burns. |
| Environmental hazards | Not classified as an environmental hazard. |
| Specific hazards | Causes severe burns. Do not breathe dust/fume/gas/mist/vapors/spray. |
| Main symptoms | Contact with this material will cause burns to the skin, eyes and mucous membranes. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS # | Percent | EC-No. | Classification |
|--|---------|----------|-----------|-------------------|
| 2,4,6-Tri-(dimethylamino-methyl)ph enol | 90-72-2 | 2.5 - 10 | 202-013-9 | Xn;R22, Xi;R36/38 |
| Other components below reportable levels | | 90 - 100 | | |

4. FIRST AID MEASURES

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| Inhalation | Move to fresh air. For breathing difficulties, oxygen may be necessary. Get medical attention immediately. |
| Skin contact | Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Get medical attention immediately. Wash clothing separately before reuse. |
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately. |
| Ingestion | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. |
| General advice | In case of shortness of breath, give oxygen. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Keep victim warm. |
| Notes to physician | In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. |

5. FIRE-FIGHTING MEASURES

| | |
|-------------------------------------|---|
| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). |
|-------------------------------------|---|

Extinguishing media which must not be used for safety reasons Do not use water jet as an extinguisher, as this will spread the fire.

6. ACCIDENTAL RELEASE MEASURES

Containment procedures Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.

Personal precautions Keep unnecessary personnel away. Keep upwind. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the MSDS.

Environmental precautions Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Methods for cleaning up This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. This material and its container must be disposed of as hazardous waste. For waste disposal, see section 13 of the MSDS.

7. HANDLING AND STORAGE

Handling Do not breathe dust/fume/gas/mist/vapors/spray. Do not get this material in contact with eyes. Do not get this material in contact with skin.

Storage Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the MSDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Additional exposure data Not available.

Engineering measures to reduce exposure General ventilation normally adequate.

Personal protective equipment

Respiratory protection Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection Chemical resistant gloves.

Eye protection Face-shield. Do not get in eyes.

Skin and body protection Do not get this material in contact with skin. Wear chemical protective equipment that is specifically recommended by the manufacturer.

Environmental exposure controls Environmental manager must be informed of all major releases.

Hygiene measures Do not get this material on clothing. Wash hands after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state Liquid.

Form Liquid.

Color Light amber.

Odor Ammoniacal.

Odor threshold Not available.

pH Not available.

Vapor pressure 15.6 mm Hg

Vapor density Not available.

Boiling point > 392 °F (> 200 °C)

Melting point/Freezing point Not available.

| | |
|---|---------------------|
| Solubility (water) | Slightly Soluble |
| Specific gravity | 0.99 estimated |
| Relative density | Not available. |
| Flash point | 226.4 °F (108.0 °C) |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not available. |
| Auto-ignition temperature | > 392 °F (> 200 °C) |
| VOC | 0 g/l |
| Evaporation rate | Negligible |
| Percent volatile | 0 |

10. STABILITY AND REACTIVITY

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| Conditions to avoid | Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| Hazardous decomposition products | No hazardous decomposition products are known. |
| Stability | Material is stable under normal conditions. |

11. TOXICOLOGICAL INFORMATION

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|-----------------------------------|--|
| Acute toxicity | Causes severe burns. |
| Routes of exposure | Inhalation. Skin contact. Eye contact. |
| Carcinogenicity | Not classifiable as to carcinogenicity to humans. |
| Mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Reproductivity | Not classified. |
| Epidemiology | No epidemiological data is available for this product. |
| Local effects | Causes severe burns. |
| Symptoms and target organs | Contact with this material will cause burns to the skin, eyes and mucous membranes. |

12. ECOLOGICAL INFORMATION

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|------------------------------|---|
| Ecotoxicity | Not expected to be harmful to aquatic organisms. |
| Environmental effects | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. |
| Aquatic toxicity | Not available. |
| Mobility | This product is miscible in water. |

13. DISPOSAL CONSIDERATIONS

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| Disposal instructions | Consult authorities before disposal. This material and its container must be disposed of as hazardous waste. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not discharge into drains, water courses or onto the ground. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Avoid discharge into water courses or onto the ground. |
| Contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

14. TRANSPORT INFORMATION

IATA

| | |
|-------------------------------------|--|
| UN number | 2735 |
| UN proper shipping name | Amines, liquid, corrosive, n.o.s. |
| Transport hazard class(es) | |
| Class | 8 |
| Subsidiary risk | - |
| Packing group | III |
| Environmental hazards | No. |
| ERG Code | 8L |
| Special precautions for user | Read safety instructions, MSDS and emergency procedures before handling. |

Other information

Passenger and cargo aircraft Allowed.
Cargo aircraft only Allowed.

IMDG

UN number 2735
UN proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.
Transport hazard class(es)
Class 8
Subsidiary risk -
Packing group III
Environmental hazards
Marine pollutant No.
EmS F-A, S-B
Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code This substance/mixture is not intended to be transported in bulk.

IATA; IMDG



15. REGULATORY INFORMATION

Labeling

Symbol(s)



Corrosive

R-phrases(s)

R35 Causes severe burns.

S-phrases(s)

S23 Do not breathe gas/fumes/vapor/spray.
S24/25 Avoid contact with skin and eyes.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S60 This material and its container must be disposed of as hazardous waste.

Follow national regulation for work with chemical agents.

Regulatory information

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work.

16. OTHER INFORMATION

Wording of the R-phrases in sections 2 and 3

R22 Harmful if swallowed.
R35 Causes severe burns.
R36/38 Irritating to eyes and skin.

International Inventories

Country(s) or region
Europe

Inventory name
European Inventory of Existing Commercial Chemical Substances (EINECS)

On inventory (yes/no)*
Yes

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|-----------------------|-------------------------------|
|-----------------------------|-----------------------|-------------------------------|

| | | |
|--------|--|----|
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
|--------|--|----|

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Disclaimer

The information offered in this data sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however, no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. This material is intended for industrial use only. No warranty, expressed or implied is made.

Prepared by

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