

## SAFETY DATA SHEET

### 1. Product and company identification

<b>Product name</b>	<b>Tapecoat Wet Bond Epoxy Mastic Hardener</b>	
<b>Manufacturer/Supplier</b>	Chase Corporation - Tapecoat Division	
<b>Address</b>	1527 Lyons Street Evanston, IL 60201 US	
<b>Telephone</b>	General Assistance	800 543-3458
<b>E-mail</b>	info@chasecorp.com	
<b>Contact person</b>		
<b>Emergency telephone number</b>	Chemtrec (US - 24 hrs)	800 424-9300
	Chemtrec (INTL - 24 hrs)	703-527-3887

#### Recommended use and Limitations on use

**Recommended use** Not available.

### 2. Hazards identification

#### GHS classification

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Acute toxicity, oral	Category 4 (60.49 % of the mixture consists of component(s) of unknown toxicity.)
	Acute toxicity, dermal	Category 4 (60.49 % of the mixture consists of component(s) of unknown toxicity.)
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Sensitization, respiratory	Category 1
	Sensitization, skin	Category 1
	Reproductive toxicity (fertility)	Category 2
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 2 (60.49 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.)
	Hazardous to the aquatic environment, long-term hazard	Category 3 (66.97 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.)

#### Label elements

##### Symbols



##### Signal word

Danger

##### Hazard statement

Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of damaging fertility. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

## Precautionary statement

### Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

### Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see this label). If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

### Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

## 3. Composition/information on ingredients

### Substance or mixture

Mixture

### Chemical property

### CAS Number

### Concentration (%)

Bisphenol A	80-05-7	20 - < 30
2,2'-iminodi(ethylamine)	111-40-0	5 - < 10
BENZYL ALCOHOL	100-51-6	5 - < 10
Other components below reportable levels		60 - < 70

## 4. First aid measures

### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Take off immediately all contaminated clothing. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing 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. Continue rinsing. Call a physician or poison control center immediately.

### Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

### Potential delayed effects

Burning pain and severe corrosive skin damage. Difficulty in breathing. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

### Personal protection for first-aid responders

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

### Notes to physician

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

## 5. Fire-fighting measures

### Extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

### Extinguishing media to avoid

Do not use water jet as an extinguisher, as this will spread the fire.

### HAZCHEM Code Number

None.

### Specific hazards during fire fighting

During fire, gases hazardous to health may be formed.

### Special fire fighting procedures

Move containers from fire area if you can do so without risk.

### Protection of fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### Hazards from combustion products

None.

### Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

### General fire hazards

No unusual fire or explosion hazards noted.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

### Spill cleanup methods

The product is immiscible with water and will spread on the water surface.

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. Absorb in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Prevent product from entering drains. 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. For waste disposal, see section 13 of the SDS.

## 7. Handling and storage

### Handling

#### Precautions

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Pregnant or breastfeeding women must not handle this product. Do not taste or swallow. When using, do not eat, drink or smoke. Avoid release to the environment. Do not empty into drains.

#### Safe handling advice

Avoid prolonged exposure. Should be handled in closed systems, if possible. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. Use personal protection recommended in Section 8 of the SDS.

#### Prevention of fire and explosion

No specific recommendations.

#### Local and general ventilation

Provide adequate ventilation.

### Storage

#### Suitable storage conditions

Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

#### Incompatible materials

Alkaline metals. Strong acids. For further information, please refer to section 10 of the SDS.

#### Safe packaging materials

Keep in original container.

## 8. Exposure controls/personal protection

### Exposure limits

#### New Zealand. WES. (Workplace Exposure Standards)

Components	Type	Value
2,2'-iminodi(ethylamine) (CAS 111-40-0)	TWA	4.2 mg/m <sup>3</sup>  1 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
2,2'-iminodi(ethylamine) (CAS 111-40-0)	TWA	1 ppm

#### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
2,2'-iminodi(ethylamine) (CAS 111-40-0)	TWA	4.3 mg/m <sup>3</sup>  1 ppm	
Bisphenol A (CAS 80-05-7)	TWA	10 mg/m <sup>3</sup>	Inhalable dust.

#### Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value
2,2'-iminodi(ethylamine) (CAS 111-40-0)	TWA	4.2 mg/m <sup>3</sup>  1 ppm

**Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)**

Components	Type	Value
2,2'-iminodi(ethylamine) (CAS 111-40-0)	TWA	4.2 mg/m <sup>3</sup>  1 ppm

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

**Exposure guidelines****New Zealand WES: Skin designation**

2,2'-iminodi(ethylamine) (CAS 111-40-0) Skin absorption can be significant.

**US ACGIH Threshold Limit Values: Skin designation**

2,2'-iminodi(ethylamine) (CAS 111-40-0) Can be absorbed through the skin.

**Engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Personal protective equipment**

**Respiratory protection** Chemical respirator with organic vapor cartridge and full facepiece.

**Hand protection** Wear appropriate chemical resistant gloves.

**Skin protection** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Eye/face protection** Chemical respirator with organic vapor cartridge and full facepiece.

**Radioactive or thermal hazards** Follow standard monitoring procedures.

**Hygiene measures** When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

**9. Physical and chemical properties****Appearance**

**Physical state** Liquid.

**Form** Liquid.

**Color** Light amber.

**Odor** Ammoniacal.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** -38.2 °F (-39 °C) estimated

**Boiling point, initial boiling point, and boiling range** > 392 °F (> 200 °C)

**Flash point** > 392.0 °F (> 200.0 °C)

**Auto-ignition temperature** > 392 °F (> 200 °C)

**Flammability (solid, gas)** Not available.

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** Negligible

**Vapor density** Not available.

**Evaporation rate** Not available.

**Relative density** Not available.

**Density** 1.12 g/cm<sup>3</sup> estimated

**Solubility(ies)**

**Solubility (water)** Insoluble

**Partition coefficient (n-octanol/water)** Not available.

**Decomposition temperature** Not available.

<b>Viscosity</b>	3000 - 4000 cP
<b>Percent volatile</b>	9 % estimated
<b>Other data</b>	
<b>Specific gravity</b>	1 estimated
<b>VOC (Weight %)</b>	0 g/l

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong acids. Alkaline metals.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.

## 11. Toxicological information

<b>Acute toxicity</b>	Harmful in contact with skin. Harmful if swallowed. May cause an allergic skin reaction. May cause respiratory irritation.
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<b>Product</b>	<b>Species</b>	<b>Test Results</b>
Tapecoat Wet Bond Epoxy Mastic Hardener (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	22222.2227 mg/kg estimated
<i>Inhalation</i>		
LC100	Rat	2222.2222 mg/l, 8 Hours estimated
LC50	Rat	11111.1113 mg/l, 8 Hours estimated
<i>Oral</i>		
LD50	Mouse	6532.4458 mg/kg estimated
	Rabbit	21555.5547 mg/kg estimated
	Rat	4854.6304 mg/kg estimated
<i>Other</i>		
LD50	Guinea pig	1600 mg/kg estimated
	Mouse	840.0157 mg/kg estimated
	Rabbit	601.884 mg/kg estimated
	Rat	388.5323 mg/kg estimated
<b>Components</b>	<b>Species</b>	<b>Test Results</b>
2,2'-iminodi(ethylamine) (CAS 111-40-0)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	1080 mg/kg
<i>Other</i>		
LD50	Guinea pig	162 mg/kg
	Mouse	71 mg/kg
	Rabbit	1090 mg/kg
	Rat	74 mg/kg
BENZYL ALCOHOL (CAS 100-51-6)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	2000 mg/kg
<i>Inhalation</i>		
LC100	Rat	200 - 300 mg/l, 8 Hours
LC50	Rat	1000 mg/l, 8 Hours
<i>Oral</i>		
LD50	Mouse	1580 mg/kg

Components	Species	Test Results
	Rabbit	1940 mg/kg
	Rat	1230 - 3100 mg/kg
<i>Other</i>		
LD50	Guinea pig	> 400 mg/kg
	Mouse	324 mg/kg
	Rat	53 mg/kg
Bisphenol A (CAS 80-05-7)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Mouse	2500 mg/kg
	Rat	3300 mg/kg
<i>Other</i>		
LD50	Rabbit	150 mg/kg

\* Estimates for product may be based on additional component data not shown.

<b>Routes of exposure</b>	Inhalation. Ingestion. Skin contact. Eye contact.
<b>Symptoms</b>	Burning pain and severe corrosive skin damage. Difficulty in breathing. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.
<b>Skin corrosion/irritation</b>	Causes severe skin burns and eye damage.
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.
<b>Respiratory sensitizer</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Skin sensitizer</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Toxic to reproduction</b>	Suspected of damaging fertility.
<b>Specific target organ toxicity - single exposure</b>	May cause respiratory irritation.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Chronic effects</b>	Prolonged inhalation may be harmful.
<b>Relevant negative data</b>	Not available.

## 12. Ecological information

### Ecotoxicological data

Product	Species	Test Results	
Tapecoat Wet Bond Epoxy Mastic Hardener (CAS Mixture)			
<b>Aquatic</b>			
Crustacea	EC50	Daphnia	38.2855 mg/l, 48 hours estimated
Fish	LC50	Fish	21.7582 mg/l, 96 hours estimated
Components	Species	Test Results	
2,2'-iminodi(ethylamine) (CAS 111-40-0)			
<b>Aquatic</b>			
Fish	LC50	Guppy (Poecilia reticulata)	1014 mg/l, 96 hours
BENZYL ALCOHOL (CAS 100-51-6)			
<b>Aquatic</b>			
Fish	LC50	Bluegill (Lepomis macrochirus)	10.5 mg/l, 96 hours
Bisphenol A (CAS 80-05-7)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	9.2 - 11.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	3.6 - 5.4 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

<b>Ecotoxicity</b>	Toxic to aquatic life. Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.
<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Biodegradability</b>	
<b>Percent degradation (Aerobic biodegradation)</b>	
BENZYL ALCOHOL	94 %
<b>Bioaccumulation</b>	Not available.
<b>Partition coefficient n-octanol/water (log Kow)</b>	
BENZYL ALCOHOL	1.1
Bisphenol A	3.32
<b>Mobility</b>	The product is immiscible with water and will spread on the water surface.
<b>Other hazardous effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

### 14. Transport information

<b>IATA</b>	
<b>UN number</b>	UN2735
<b>UN proper shipping name</b>	Amines, liquid, corrosive, n.o.s. (2,2'-iminodi(ethylamine))
<b>Transport hazard class(es)</b>	
<b>Class</b>	8
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	8L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed.
<b>Cargo aircraft only</b>	Allowed.
<b>IMDG</b>	
<b>UN number</b>	UN2735
<b>UN proper shipping name</b>	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (2,2'-iminodi(ethylamine))
<b>Transport hazard class(es)</b>	
<b>Class</b>	8
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No.
<b>EmS</b>	F-A, S-B
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not available.

IATA; IMDG



## 15. Regulatory information

### Applicable regulations

#### New Zealand Inventory of Chemicals (NZIoC): Registration status

2,2'-iminodi(ethylamine) (CAS 111-40-0)	HSNO Approved
BENZYL ALCOHOL (CAS 100-51-6)	HSNO Approved
Bisphenol A (CAS 80-05-7)	HSNO Approved

## 16. Other information

**References** Not available.

### Issued by

**Company name** Dan Libby

### Prepared by

Not available.

### 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.

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