



MATERIALS SAFETY DATA SHEET

Date Revised Oct 03, 2012 5th Edition

FOR CHEMICAL EMERGENCY

During Business Hours: (800) 966-3458

Outside Business Hours: (800) 420-7186

1. IDENTIFICATION OF THE PRODUCT

PRODUCT NAME: Gorilla Epoxy - Hardener

SYNONYMS: Epoxy Hardener

DISTRIBUTOR: The Gorilla Glue Company
4550 Red Bank Expressway
Cincinnati, OH 45227
Tel: (513) 271-3300
Fax: (513) 527-3742

2. HAZARDS IDENTIFICATION

Physical State Liquid
Color Amber

OSHA/HCS status This material is considered hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200)

Emergency Overview DANGER!
CAUSES EYE AND SKIN BURNS. CAUSES RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE.
Do not breathe vapor. Do not get on skin. Avoid contact with eyes. Do not ingest. Wash thoroughly after handling. Use only with adequate ventilation.

See toxicological information (section 11)

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENTS</u>	<u>WGT%</u>	<u>CAS #</u>
Mercaptan-terminated polymer	60-100%	101359-87-9
Isophorone	7-13 %	2855-13-2

4. FIRST AID MEASURES

Eye contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.



MATERIALS SAFETY DATA SHEET

Date Revised Oct 03, 2012 5th Edition

FOR CHEMICAL EMERGENCY

During Business Hours: (800) 966-3458

Outside Business Hours: (800) 420-7186

4. FIRST AID MEASURES

Ingestion

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician

No specific treatment. Treat symptomatically. Call medical doctor or poison control center immediately if large quantities have been ingested.

5. FIRE- FIGHTING MEASURES

Flash point

Closed cup: >93°C (>199.4°F)

Hazardous thermal decomposition products

Decomposition products may include the following:
carbon dioxide
carbon monoxide
nitrogen oxides

Extinguishing media

Suitable :

Use an extinguishing agent suitable for the surrounding fire.

Not suitable :

None known

Special exposure hazards

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions :

Use personal protection in Section 8.

Environmental precautions :

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up :

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Note: see section 1 for emergency contact information and section 13 for waste disposal.



MATERIALS SAFETY DATA SHEET

Date Revised Oct 03, 2012 5th Edition

FOR CHEMICAL EMERGENCY

During Business Hours: (800) 966-3458

Outside Business Hours: (800) 420-7186

7. HANDLING AND STORAGE

Handling Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Use local exhaust ventilation if the potential for airborne exposure exists.

Respiratory: In case of inadequate ventilation wear respiratory protection.

Hands: Chemical resistant, impermeable gloves

Eyes: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

FLASH POINT: >200°F/ 93°C Closed cup

LOWER FLAMMABLE LIMIT %: Not available

UPPER FLAMMABLE LIMIT %: Not available

APPEARANCE: Amber viscous liquid

SPECIFIC GRAVITY: 1.11

VAPOR PRESSURE (mmHg): < 1

BOILING POINT: N/AV

VAPOR DENSITY: Heavier than air

EVAPORATION RATE (Ethyl Ether = 1): Not available

VOLATILES BY WEIGHT: Nil

SOLUBILITY IN WATER: Nil

VOC: 1.2% (11 g/L)

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Open flames, sparks, heat, electrical and static discharge.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide, and Carbon.

HAZARDOUS POLYMERIZATION: Under normal conditions of storage and use, hazardous reactions will not occur.



MATERIALS SAFETY DATA SHEET

Date Revised Oct. 03, 2012 5th Edition

FOR CHEMICAL EMERGENCY

During Business Hours: (800) 966-3458

Outside Business Hours: (800) 420-7186

11. TOXICOLOGICAL INFORMATION

Potential Acute Health Effects:

Inhalation

Causes irritation to the respiratory system

Ingestion

Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. May cause burns to mouth, throat and stomach.

Skin

Corrosive to skin. Can cause burns. May cause sensitization by skin contact.

Eyes

Corrosive to eye. Can cause burns.

Product/Ingredient name	Result	Species	Dose	Exposure
Isophorone diamine	LD50 Oral	Rat	1030mg/kg	-
	Sensitizer	Guinea Pig		Skin
Mercaptan-terminated polymer	LC50 Inhalation	Rat	>20 mg/L	4 hours

Chronic Effects:

Overexposure to this material has apparently been known to cause the following effects in lab animals: skin sensitization, respiratory system irritation.

CARCINOGEN: YES NO

TERATOGEN: YES NO

MUTAGEN: YES NO

12. ECOLOGICAL INFORMATION

Environmental effects

No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

Proper shipping name

DOT : ISOPHORONEDIAMINE MIXTURE UN2289

TDG : ISOPHORONEDIAMINE MIXTURE UN2289

IMDG : ISOPHORONEDIAMINE MIXTURE UN2289

IATA : ISOPHORONEDIAMINE MIXTURE UN2289 Cargo aircraft qty limit 60L, packaging instructions 856

15. REGULATORY INFORMATION

U.S. Federal Regulations

HCS Classification

Corrosive material

Sensitizing material

U.S. Federal regulations

United States Inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312/313

Extremely hazardous substances: No ingredient listed



MATERIALS SAFETY DATA SHEET

Date Revised Oct. 03, 2012 5th Edition

FOR CHEMICAL EMERGENCY

During Business Hours: (800) 966-3458

Outside Business Hours: (800) 420-7186

15. REGULATORY INFORMATION

SARA 311/312 Hazard identification: Immediate acute health hazard, Delayed chronic health hazard

Clean Air Act Section 112(b) No ingredients listed

CERCLA Hazardous substances No ingredients listed

State Regulations:

Pennsylvania – RTK: Proponal, Oxybis-

California Prop 65: This product contains no listed substances known to the state of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Canada
WHMIS Class D-2B: Material causing other toxic effects.
Class E: Corrosive Material

CEPA DSL All components are listed or exempted.

International lists :
Australia inventory (AICS): At least one component is not listed.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: At least one component is not listed.
Korea inventory: Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): At least one component is not listed.

16. OTHER INFORMATION

HMIS RATING: Health 3 4 = Extreme
Fire 1 3 = High
Reactivity 1 2 = Moderate
1 = Slight
0 = Insignificant

Personal Protection - See Section 8

The information presented in this Material Safety Data Sheet was prepared by qualified personnel and to the best of our knowledge is true and accurate. The information and recommendations are furnished for this product with the understanding that the purchaser will independently determine the suitability of the product for this purpose. This data does not constitute a warranty, expressed or implied, statutory or otherwise, nor is it representation for which The Gorilla Glue Company assumes legal responsibility. The data is submitted for the user's information and consideration only. Any use of this product must be determined by the user to be in accordance with applicable federal, state, provincial and local laws and regulations.