

SECTION 1: IDENTIFICATION

GHS PRODUCT IDENTIFIERS:

PRODUCT NAME:	MAS Epoxies Woodzilla Hardener
SYNONYMS, TRADE NAMES:	MAS Woodzilla Hardener, Woodzilla Hardener
OTHER MEANS OF IDENTIFICATION:	Not Applicable

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

USES:	
RESTRICTIONS ON USE:	

Adhesive None Identified

SUPPLIER'S DETAILS:

MANUFACTURER/SUPPLIER:

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CONTACT PERSON:

EMERGENCY PHONE NUMBER: INFOTRAC (24 HRS): USA & CANADA 1 800 535 5053 INFOTRAC (24 HRS): INTERNATIONAL +1 352 323 3500

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Acute toxicity, oral:	Category 4, H302
Acute toxicity, dermal:	Category 4, H312
Skin Corrosion:	Category 1, H314
Eye Damage:	Category 1, H318
Skin sensitization:	Category 1, H317
Hazardous to the aquatic environment:	Chronic Category 3, H412
Acute toxicity, inhalation:	Category 4, H332
Hazardous to the aquatic environment:	Acute Category 1, H400
Toxic to reproduction:	Category 2, H361

GHS LABEL ELEMENTS:

HAZARD SYMBOLS:

SIGNAL WORDS:

HAZARD STATEMENTS:



Danger

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.



H332 Harmful if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

PREVENTION: RESPONSE:	 P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breath mists, fumes, vapors or spray. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves, clothing, and eye/face protection. P301+P330+P331+P312 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER if you feel unwell. P303+P361+P364+P353+P352 IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower. Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338+P310 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. P308+P313 IF exposed or concerned: Get medical attention.
STORAGE:	P391 Collect spillage. P403+P233 Store in a well-ventilated place. Keep container tightly closed.
DISPOSAL:	P405 Store locked up. P501 Dispose of contents and containers in accordance with local, regional and international regulations.
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Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) – Annex III

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONTENT
Isophoronediamine	2855-13-2	50-70%
Benzyl Alcohol	100-51-6	20-30%
4,4'-isopropylindenediphenol	80-05-7	0-10%
Diethylenetriamine	111-40-0	0-10%

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

SECTION 4: FIRST-AID MEASURES

DESCRIPTION OF NESSESARY FIRST-AID MEASURES:

- **INHALATION:**
- N: If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.



- SKIN: Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. Get medical attention immediately.
 EYES: Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the average and extended the average and extend
 - fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. Get medical attention immediately.
- **INGESTION:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:

SYMPTOMS: Burns. Irritation. Pre-existing skin problems may be aggravated by prolonged or repeated contact. Persons with sensitive airways (e.g., asthmatics) may react to vapors. See section 11 for additional information.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

TREATMENT: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:

SUITABLE:Use water spray, foam, dry chemical or carbon dioxide.UNSUITABLE:None known.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

UNUSUAL FIRE & EXPLOSION HAZARDS: Product is not considered a fire hazard, but will burn if ignited. Closed container may rupture (due to build up in pressure) when exposed to extreme heat. **HAZARDOUS COMBUSTION PRODUCTS:** Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See Section 10 Hazardous decomposition products for additional information.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: Wear self-contained breathing apparatus (SCBA) equipped with a full face piece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations. See section 9 for additional information.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Eliminate ignition sources. Personal Protective Equipment must be worn.

ENVIRONMENTAL PRECAUTIONS: Do not flush product into public sewer, water systems or surface waters.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Stop leak if without risk. Move containers from spill area. Contain by diking with sand, earth or other non-combustible material. Wear proper personal protective clothing and equipment. Absorb spill with an inert material. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.



SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: As with any chemical product, use good laboratory/workplace procedures. Do not cut, puncture, or weld on or near the container. Use under well-ventilated conditions. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Discard shoes contaminated with this product.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Keep away from heat, sparks and open flames. Store dry at 15-40°C, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Empty container contains residual product which may exhibit hazards of product. Do not reuse empty container without commercial cleaning or reconditioning.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PERAMETERS:

OCCUPATIONAL EXPOSURE LIMITS:

CHEMICAL NAME	CAS NUMBER	ACGIH-TWA	ACGIH-STEL
Isophoronediamine	2855-13-2	Not available	Not available
Benzyl Alcohol	100-51-6	Not available	Not available
4,4'-isopropylindenediphenol	80-05-7	Not available	Not available
Diethylenetriamine	111-40-0	1 ppm (8 hours)	Not available

APPOPRIATE ENGINEERING CONTROLS: Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation. Ventilation must be adequate to maintain air concentrations below occupational exposure standards. When necessary use mechanical handling to reduce human contact with materials.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYE/FACE PROTECTION:	Full face shield with safety glasses or goggles underneath are required.
SKIN PROTECTION:	Wear chemical resistant (impervious) gloves; PVC, neoprene, nitrile rubber, EVAL, butyl rubber. Wear chemical resistant protective clothing. Use good laboratory/ workplace procedures including personal protective clothing: lab coat and protective gloves.
RESPIRATORY PROTECTION:	Wear an approved respirator (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable exposure limit(s) of any chemical substance listed in this SDS.
GENERAL PROTECTION:	Eyewash fountains and safety showers are recommended in the work area.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Thixotropic Paste	UPPER/LOWER FLAMMABILTY OR EXPLOSIVE LIMITS:	Not available
COLOR:	Brown	VAPOUR PRESSURE:	<0.15 mm Hg at 20°C



ODOUR: Amine-like **ODOUR THRESHOLD:** Not available PH: Not available **MELTING POINT/** Not available FREEZING POINT INITIAL BOILING POINT Not available AND BOILING RANGE: FLASH POINT: >108°C **EVAPORATION RATE:** Not available FLAMMABILITY Not available (SOLID, GAS):

SAFETY DATA SHEET WOODZILLA HARDENER

VAPOUR DENSITY: RELATIVE DENSITY: SOLUBILITY(IES): PARTITION COEFFICIENT (n-octanol/water): AUTO-IGNITION TEMPERATURE:

DECOMPOSITION TEMPERATURE: VISCOSITY:

Heavier than air 1.05 Slightly Not available

Not available

Not available Thixotropic paste

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY: Exothermic reactions including polymerization may occur in contact with strong acids, strong bases, alcohols, strong oxidizing agents and excessive heat.

CHEMICAL STABILITY: This product is stable.

POSSIBILITY OF HAZARDOUS REACTIONS: Exothermic reactions including polymerization may occur in contact with strong acids, strong bases, alcohols, strong oxidizing agents and excessive heat.

CONDITIONS TO AVOID: Excessive heat and ignition sources.

INCOMPATIBLE MATIERALS: Avoid strong acids, bases, and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, aldehydes, oxides of nitrogen and other products of incomplete combustion.

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE: Eyes, skin, inhalation and ingestion.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMCIAL AND TOXICOLOGICAL CHARACTERISTICS:

EYES:	Causes serious eye damage.
SKIN:	Causes severe skin burns. May cause allergic skin reaction. Harmful in contact with skin.
INHALATION:	Throat and respiratory tract. Harmful if inhaled.
INGESTION:	Harmful if swallowed.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE: Suspected of damaging fertility or the unborn child.

ACUTE TOXICITY:

CHEMCIAL NAME	LC₅₀ INHALATION (RAT)	LD ₅₀ ORAL (RAT)	LD ₅₀ DERMAL (RABBIT)
Isophoronediamine	Not available	1,030 mg/kg	Not available
Benzyl Alcohol	>4,178 mg/m³ (4 hrs)	1,620 mg/kg	Not available
4,4'-isopropylindenediphenol	Not available	>2,000 mg/kg	>2,000 mg/kg
Diethylenetriamine	Not available	1,080-2,330 mg/kg	672-1,240 mg/kg

CORROSION / IRRITATION / SENSITIZATION INFORMATION:

SKIN CORROSION/IRRITATION:	Skin corrosion – Category 1
SERIOUS EYE DAMAGE/IRRITATION:	Eye damage – Category 1



RESPIRATORY OR SKIN SENSITIZATION:

Skin sensitization – Category 1

CARCINOGENICITY / MUTAGENICITY / REPRODUCTIVE TOXICOLOGY INFORMATION:

GERM CELL MUTAGENICITY: CARCINOGENICITY: REPRODUCTIVE TOXICITY:

SPECIFIC TARGET ORGAN TOXICITY (STOT): STOT-SINGLE EXPOSURE: STOT-REPEATED EXPOSRE: IVE TOXICOLOGY INFORMATION Information is not available. Information is not available. Toxic to reproduction – Category 2

Information is not available. Information is not available.

ASPIRATION HAZARD: Information is not available.

OTHER INFORMATION: None

SECTION 12. ECOLOGICAL INFORMATION

TOXICITY:					
CHEMICAL NAME	TEST	SPECIES		RESULT	
Isophoronediamine	LC50 (96 hrs)	Fish		110 mg/L	
	EC50 (48 hrs)	Daphnia		23 mg/L	
	EC10 (18 hrs)	Bacteria		1120 mg/	L
Benzyl Alcohol	LC50 (96 hrs)	Fish		460 mg/L	
	EC50 (48 hrs)	Daphnia		230 mg/L	
	EgC50 (72 hrs)	Algae		770 mg/L	
4,4'-isopropylindenediphenol	Not available				
Diethylenetriamine	Not available				
PERSISTENCE AND DEGRADBILITY:					
CHEMICAL NAME	TEST			PERIOD	RESULT
Isophoronediamine	EU EC C.4-A Biodegradation: Determination of the "Read" Biodegradability: Dissolved Organic Carbon (DOC) Die-Away Test		28 Days	8%	
Benzyl Alcohol	OECD 301A Ready Biodegradability – DOC Die Away test		21 Days	95-97%	
4,4'-isopropylindenediphenol	Not available				
Diethylenetriamine	Not available				
BIOACCUMULATIVE POTENTIAL:					
CHEMICAL NAME	Log Pow		BCF	POTENTI	AL
Isophoronediamine	0.99		Not available	Low	
Benzyl Alcohol	1.1		Not available	Low	
4,4'-isopropylindenediphenol	Not available		Not available	Not availa	able
Diethylenetriamine	Not available Not available		Not available		
MOBILITY IN SOIL:					
CHEMICAL NAME	SOIL/WATER P	ARTITION COE	FFICIENT (Koc)		
Isophoronediamine	Not available				
Benzyl Alcohol	Not available				



4,4'-isopropylindenediphenol Diethylenetriamine Not available Not available

OTHER ADVERSE EFFECTS: Additional information is not available

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Dispose of unused contents (incineration) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate. See section 8 for recommendations on the use of personal protective equipment.

SECTION 14. TRANSPORTATION INFORMATION

UN NUMBER: UN2289

UN PROPER SHIPPING NAME:

Isophoronediamine Mixture

TRANSPORT HAZARD CLASS:

U.S. DOT HAZARD CLASS:	8
CANADA TDG HARZARD CLASS:	8
EUROPE ADR/RID HAZARD CLASS:	8
IMDG CODE (OCEAN) HAZARD CLASS:	8
ICAO/IATA (AIR) HAZARD CLASS:	8
PACKING GROUP: III	
ENVIRONMENTAL HAZARDS:	
	Vaa

MARINE POLLUI ANI:	Yes
HAZARDOUS SUBSTANCE (USA):	No

SPECIAL PRECAUTIONS FOR USER: Information is not available.

TRANSPORTING IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE: Information is not available.

LABEL FOR CONVEYANCE:



OTHER INFORMATION: ORM-D Consumer Commodity in 1 gal or less containers

SECTION 15. REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT IN QUESTION:

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV – List of substances subject to authorization, Substances of very high concern

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

None of the components are listed. None of the components are listed.



OTHER REGULATIONS: Additional information is not available.

CHEMICAL INVENTORIES:

Canadian Domestic Substances List (DSL):	Y
Canadian Non-Domestic Substances List (NDSL):	Ν
European Inventory of Existing Chemical Substances (EINECS):	Y
European List of Notified Chemical Substances (ENCS):	Ν
U.S. Toxic Substances Control Act (TSCA):	Y

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory; 2) no information is available; or 3) the component has not been reviewed.

SECTION 16. OTHER INFORMATION

REVISION DATE: June 29, 2017

ACGIH: American Conference of Governmental Industrial Hygienists LEGEND: ADR/RID: European dangerous goods transport road and rail regulations CAS No: Chemical Abstract Service Registry Number DOT: Department of Transportation (U.S.) GHS: Globally Harmonized System of Classification and Labeling of Chemicals IATA: International Air Transport Association ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods code **OEL:** Occupational Exposure Limits OSHA: Occupational Safety and Health Administration (U.S.) PEL: Permissible Exposure Limit **RQ: Reportable Quantity** SDS: Safety Data Sheet STEL: Short Term Exposure Limit (15 minute Time Weighted Average) TDG: Canadian Transportation of Dangerous Goods Act and Regulations **UN: United Nations** U.S.: United States

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