

PRECISION SURFACES INTERNATIONAL, INC.

922 Ashland Houston, TX 77008-6734

713-426-2220 Fax: 713-426-2223

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Name: Epoxy Hardener, Non-Corrosive
Product Identifier: PSI-2332-8H
Supplier: Precision Surfaces International, Inc.
922 Ashland, Houston, TX 77008-6734
Emergency Telephone: Infotrac 800-535-5053
Recommended Use: Potting Compound

SECTION 2: Hazard(s) Identification

Emergency Overview

Causes skin and eye irritation. At elevated temperatures, vapors are irritating to the eyes and respiratory tract. May cause allergic skin reaction. Toxic to aquatic organisms.

Primary Routes of Entry

Skin contact, eye contact, skin absorption

GHS Label Information

Pictogram

50-Hrmfl



Signal Word

Warning!

Hazard Label Statements

H303 May be harmful if swallowed

H316 Causes mild skin irritation

H317 May cause an allergic skin reaction

Precautionary Statement

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves and eye protection.

P302 + P352 + P333 + P313 IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention.

P305 + P351 + P338 + P313 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

SECTION 3: Composition/Information on Ingredients

Ingredient	C.A.S. No.	% by Weight
Triethylenetetramine	112-24-3	10 – 20
Polyamide resin	Trade Secret	50 – 100

SECTION 4: First-aid Measures

Inhalation

If symptoms occur, remove to fresh air. Medical personnel may administer oxygen if breathing is difficult. Seek medical attention if symptoms persist.

Skin Contact

Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Eye Contact

Flush with water for 15 minutes. Get medical attention.

Ingestion

If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Notes to Physician

Treat symptomatically

SECTION 5: Fire-fighting Measures

Extinguishing media

Alcohol foam, CO₂, dry chemical, foam, water fog

Unusual fire and explosion hazards

Closed containers may rupture or explode (due to pressure build-up) when exposed to extreme heat. Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion.

Special firefighting procedures

Use NIOSH-approved self-contained breathing apparatus and full protective clothing. Use water to cool exposed containers. Water stream directed into fire may cause frothing with subsequent spread of flame.

SECTION 6: Accidental Release Measures

Personal precautions

SMALL SPILL – Wear gloves and goggles. See Section 8 for type. LARGE SPILL – Wear gloves, boot covers, synthetic apron, and goggles. See Section 8 for type.

Environmental precautions

Prevent entry into drains and/or waterways. Keep off of soil.

Steps to be taken in case material is released or spilled

Mark area and keep unnecessary personal away from spill area. Reclaim clean material. Absorb with inert material, such as clay. Sweep or shovel into loosely-covered waste container and remove to appropriate waste area. Dispose of in accordance with federal, state, and local regulations. Contact manufacturer for further instructions.

SECTION 7: Handling and Storage

Handling

Avoid contact with eyes, skin, and clothing. Remove contaminated clothing and wash before reuse. Contaminated leather articles should be disposed of. If product is heated, process with local ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. DO NOT reuse empty container without commercial clean or recondition. FOR INDUSTRIAL USE ONLY.

Storage

Store indoors in a cool dry place under ambient conditions. Keep container closed when not in use.

SECTION 8: Exposure Controls/Personal Protection

Exposure limits

		ACGIH		OSHA	
CAS Number	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	SKIN
112-24-3	N.E.	N.E.	N.E.	N.E.	No
Trade Secret	N.E.	N.E.	N.E.	N.E.	No

		OEL		
CAS Number	8 HR	15 MIN	IDLH	OTHER LIMIT (SOURCE)
112-24-3	N.E.	N.E.	N.E.	1 ppm (WEEL)
Trade Secret	N.E.	N.E.	N.E.	N.E.

Engineering Controls

Local exhaust as needed to control vapor or dust levels to below lowest component safe exposure limit.

Personal Protective Equipment (PPE)

Clean clothing to cover skin. Eye wash and safety shower.

Eye Protection

Chemical splash goggles.

Skin Protection

Butyl rubber gloves. Nitrile gloves. Supported PVA gloves.

Respiratory Protection

If TLV/PEL is exceeded, if use is performed in a poorly-ventilated space, or if inhalation effects occur, use approved vapor cartridge respirator in accordance with applicable health and safety regulations and manufacturer's recommendations.

SECTION 9: Physical and Chemical Properties

Physical State:	Thin Liquid
Appearance:	Clear Liquid
Odor:	Acrid Ammoniacal

Odor Threshold:	No Data Available
pH @ 100%:	No Data Available
Flash Point:	175°C
Melting / Freeze Point:	No Data Available
Boiling Point:	200
Evaporation Rate:	Is slower than n-Butyl Acetate
Flammable Limits (LEL):	No Data Available
Flammable Limits (UEL):	No Data Available
Vapor Pressure:	No Data Available
Vapor Density:	Is heavier than air
Specific Gravity:	1.009
Solubility in Water:	Moderate
Autoignition Temperature:	No Data Available
Partition Coefficient (log Pow):	No Data Available

SECTION 10: Stability and Reactivity

Chemical stability

Prolonged exposure to heat may cause separation.

Incompatibility/materials to avoid

Strong bases or oxidants. Strong Lewis or mineral acids.

Hazardous decomposition products

Oxides of carbon.

Hazardous reactions

Will not occur under normal conditions.

Conditions to avoid

This product is stable under normal storage conditions.

SECTION 11: Toxicological Information

Component Toxicological Information

Chemical Name	Test Data
Triethylenetetramine	Oral LD50 Rat = 2500 mg/kg
Triethylenetetramine	Dermal LD50 Rabbit = 550 mg/kg
Polyamide resin	No information

Acute Effects – Eye

Contact with eyes may cause irritation with tearing and redness.

Acute Effects – Skin:

Moderate irritant. Prolonged contact may cause dermatitis.

Acute Effects – Inhalation:

Inhalation of vapors may cause irritation and drying of the nose, mucous membranes, and sore throat.

Acute Effects – Ingestion:

Irritating to mouth, throat and stomach, with nausea.

Chronic Overexposure/Other Information:

No information

SECTION 12: Ecological Information**Component Ecological Information**

Chemical Name	Test Data
Triethylenetetramine	No information
Polyamide resin	No information

Summary of Ecological Information**Bioaccumulation Potential**

No information indicating bioaccumulation.

Persistence and Degradability

No information indicating persistence or degradability.

Aquatic Toxicity

No information indicating material is toxic to aquatic organisms.

SECTION 13: Disposal Considerations**Disposal method**

Review all current federal, state, and local regulations regarding health and disposal for appropriate disposal procedures. For small amounts, mix resin and hardener according to product directions and allow to harden. When cured, product is non-hazardous, and may be placed in industrial or municipal landfill if local regulations permit. Material "as sold" is not regulated as a hazardous waste under federal RCRA regulations. DO NOT landfill free liquid. Fuels blending or incineration of free liquid recommended if permitted.

SECTION 14: Transport Information**International Shipping Name**

Not considered a dangerous good for transport.

ID Number

N/A

Packing Group

N/A

Primary Hazard Class

N/A

Hazard Subclass

N/A

International EMS NO

N/A

NA Emergency Response Guide NO

N/A

SECTION 15: Regulatory Information

California Proposition 65 Statement

NONE

CERCLA - SARA Hazard Category

This product has been reviewed, and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard

SARA Section 313

This product contains the following substances subject to the reporting requirements of Section 313 and 40 CFR part 372: None

Toxic Substances Control Act

Components Subject to Section 4 Testing/Snur

None

Section 8 Inventory

The chemical substances in this product are on the TSCA Section 8 Inventory.

Section 12(B) Export Reporting

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States: none

Canadian WHMIS

This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

Canadian WHMIS Class

D2B

Component RCRA Codes

None

CERCLA RQ Value (Minimum)

None

Reach Substance(s) of Very High Concern

None added or known to be present.

RoHS Substance(s)

None added or known to be present.

ODS/Montreal Protocol Substance(s)

None added or known to be present.

Product/Total VOC (Calculated)

0 grams/ltr

Coating/Regulatory VOC (less water and exempt solvents – calculated)

0 g/l

SECTION 16: Other Information

NFPA/THIS Ratings

Health: 2

Flammability: 1

Reactivity: 0

0=minimal hazard 1=slight hazard 2=moderate hazard 3=serious hazard 4=extremely hazard

Abbreviations

N.A. - Not Applicable

N.E. - Not Established

N.D. - Not Determined

ACGIH = American Conference of Governmental Industrial Hygienists

OSHA = US Occupational Health and Safety Administration

TLV-TWA = Threshold Limit Value-Time Weighted Average (8 hrs)

STEL = Short-Term Exposure Limit (15 min)

C = Ceiling Value

PEL = Permissible Exposure Limit

OEL = Occupational Exposure Limit

IDLH = Immediately Dangerous to Life and Health

The above information and recommendation are believed to be accurate and reliable. However, no warranty, either expressed or implied, is made as to its accuracy or completeness and none is made as to fitness of this material for any purpose. The manufacturer or supplier shall not be liable for damages to person or property resulting from its use. Nothing herein shall be construed as a recommendation for use in violation of any patent.

Issue Date:

07/13/12

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05/23/17