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:	Fast Cure Epoxy Activator
Product Identifier:	
Supplier:	Precision Surfaces International, Inc. 922 Ashland, Houston, TX 77008-6734
Emergency Telephone:	Infotrac 800-535-5053
Recommended Use:	

SECTION 2: Hazard(s) Identification

Emergency Overview
DANGER! Can burn skin and eyes. Vapors are irritating to the eyes and respiratory tract. May cause allergic skin or respiratory reaction. May be absorbed through skin in harmful amounts. Harmful or fatal if swallowed. May cause harm to the aquatic environment.

Primary Routes of Entry
Skin contact, eye contact, skin absorption, ingestion

GHS Label Information
Pictogram: 17-Toxic+Corr

Signal Word
DANGER!

Hazard Label Statements
H302+H312 Harmful if swallowed or in contact with skin
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H330 Fatal if inhaled
H335 May cause respiratory irritation

Precautionary Statements
P260 Do not breathe vapors/mist.
P264 Wash all contact areas 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 + P363 Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

P280 Wear protective gloves/eye protection/face protection.
P284 Wear respiratory protection.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P303 + P361 + P353 + P313 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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.
P304 + P341 + P342 + P311 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
P301 + P310 + P330 + P331 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor.

SECTION 3: Composition/Information on Ingredients

Ingredient	C.A.S. No.	% by Weight
Polyamine	28063-82-3	50 – 100
Diethylenetriamine	111-40-0	20 – 50

SECTION 4: First-aid Measures

Description of 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 flush skin with plenty of water. Remove contaminated clothing. Get medical attention. Dispose of contaminated clothing and leather articles in accordance with regulations.

Eye Contact
Flush eye with water for 15 minutes. Remove contacts. Get immediate 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. Wipe up with rags or wipes. Dispose of in separate closed bags. 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 personnel 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. Wash spill area with detergent solution or wipe with alcohol-soaked rags. Dispose of all washings and contaminated items in accordance with waste regulations. Contact manufacturer for further instruction if needed.

SECTION 7: Handling and Storage

Handling
Prevent contact with eyes, skin, and clothing. Contaminated clothing and 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**
28063-82-3	N.E.	N.E.	N.E.	N.E.	No
111-40-0	1 ppm	N.E.	1 ppm	N.E.	Yes

	OEL			
CAS Number	**8 Hr**	**15 min**	**IDLH**	**Other Limit (Source)**
28063-82-3	N.E.	N.E.	N.E.	
111-40-0	1 ppm/4.3 mg/m3	N.E.	N.E.	

*(TD) – Total Dust *(RD) – Respirable Dust

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.

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.

Skin Protection
Butyl rubber gloves. Nitrile gloves. Supported PVA gloves.

Eye Protection
Chemical splash goggles. Face shield.

SECTION 9: Physical and Chemical Properties

Physical State:	Liquid
Appearance	Clear to light yellow
Odor:	Acrid ammoniacal
Odor Threshold:	No Data
pH @ 100%:	N/A
Melting/Freeze Point:	No Data
Boiling Point:	220
Evaporation Rate:	Is slower than n-Butyl Acetate
Flammable Limits (LEL):	No Data
Flammable Limits (UEL):	No Data
Vapor Pressure:	No Data
Vapor Density:	Heavier than air
Specific Gravity:	1.029
Solubility in Water:	Appreciable
Flash Point:	100°C
Autoignition Temperature:	No Data
Partition Coefficient (log Pow):	No Data

SECTION 10: Stability and Reactivity

Chemical Stability
This product is stable under normal conditions.

Possibility of hazardous reactions
Will not occur under normal conditions.

Incompatibility/Materials to Avoid
Strong bases or oxidants. Strong Lewis or mineral acids. N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Reaction with epoxy resins in large amounts or under uncontrolled conditions releases considerable energy and may release acrid or harmful fumes.

Hazardous Decomposition Products
Oxides of carbon. Toxic nitrogenous oxides.

SECTION 11: Toxicological Information

Component Toxicological Information

Chemical Name	Test Data
Polyamine	No information
Diethylenetriamine	Oral – LD50 (Rat) 1,080 mg/kg Dermal- LD50 (Rabbit) 1,090 mg/kg Inhalation- LC50 (4h): 0.3 mg/l (Rat)

Acute Effects - Eye
CORROSIVE. Can cause eye burns and permanent tissue damage. Product vapor can cause lacrimation, conjuctivitis, and corneal edema when absorbed into the tissue of the eye. Corneal edema may give rise to a perception of "blue haze" or "fog" around lights. The effect is transient and has no known residual effects.

Acute Effects - Skin
CORROSIVE. Contact may cause chemical burns and blistering. May be absorbed through skin in harmful amounts. Experience indicates that direct skin contact is the route of exposure most likely to cause sensitization. Once sensitized, an individual may react even to airborne levels below the TLV with the following symptoms; itching and tingling of the earlobes and neck, rash, hives, swelling of the arms and legs or other symptoms common to allergic dermatitis. These symptoms may be immediate or may be delayed several hours.

Acute Effects - Inhalation
Can cause severe respiratory irritation. This product contains a component that is toxic by inhalation when aerosolized or sprayed. Prolonged or very high overexposure may cause burns to the mucous membranes with severe pneumonitis. Potential respiratory sensitizer.

Acute Effects - Ingestion
Harmful or fatal if swallowed. CORROSIVE; may cause severe and permanent damage to mouth, throat, and stomach.

Chronic Overexposure/Other Information
*Preexisting pulmonary and dermatological conditions may be aggravated by exposure to hazardous components.
*Diethylenetriamine - studies suggest that chronic overexposure and/or systemic toxicity effects are targeted at the liver and kidneys.

SECTION 12: Ecological Information

Component Ecological Information

Chemical Name	Test Data
Polyamine	No information
Diethylenetriamine	LC50 (96h): 1,014 mg/l Species: Guppy

Summary of Ecological Information

Bioaccumulation Potential
No information indicating bioaccumulation

Persistence and Degradability
No information indicating persistence or degradability

Aquatic Toxicity
No information

SECTION 13: Disposal Considerations

Disposal methods
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	Polyamines, Liquid, Corrosive, nos (Diethylenetriamine)
ID Number	UN2735
Packing Group	III
Primary Hazard Class	8
Hazard Subclass	N/A
International EMS No	8L
NA Emergency Response Guide No	153

SECTION 15: Regulatory Information

California Proposition 65 Statement
None

SARA Section 311 Hazard Category
This product has been reviewed, and is considered, under applicable definitions, to meet the following categories: IMMEDIATE HEALTH HAZARD

SARA Section 302 Extremely Hazardous Substances Present Above Reporting Limits
Chemical Name – None

SARA Section 313
This product contains the following substances subject to the reporting requirements of Section 313 and 40 CFR part 372: Chemical Name - 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
Component RCRA Codes	None
CERCLA RQ Value (Minimum)	None
Canadian WHMIS	This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.
Canadian WHMIS Class	D1B-D2A-E
RoHS Substance(s)	None added or known to be present.
ODS/Montreal Protocol Substance(s)	None added or known to be present.
REACH Substance(s) of Very High Concern (SVHC)	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/HMIS/THIS Ratings

Health: 3 **Flammability:** 1 **Reactivity:** 0

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.

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