

Revision Date 14-Oct-2020

# SAFETY DATA SHEET

Version 1

### **1. IDENTIFICATION**

Product identifier Product Name

High Temp Epoxy Hardener

84102V

Other means of identification Product Code

Recommended use of the chemical and restrictions on useRecommended UseEpoxy curing agentUses advised againstNo information available

Details of the supplier of the safety data sheet Manufacturer Address ITW Permatex 6875 Parkland Blvd. Solon, Ohio 44139 USA Telephone: 1-87-Permatex (866) 732-9502 24-hour emergency phone number Chem-Tel: 800-255-3924 International Emergency: 00+1+ 813-248-0585 Contract Number: MIS0003453

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May Also Be Distributed by: ITW Permatex Canada 101-2360 Bristol Circle Oakville, ON Canada L6H 6M5

Telephone: (800) 924-6994

2. HAZARDS IDENTIFICATION

### **Classification**

### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

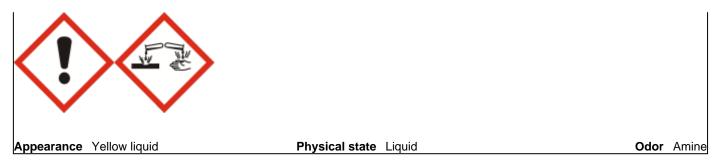
Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1

### Label elements

### **Emergency Overview**

<u>Signal word</u> Danger

Harmful if swallowed Causes severe skin burns and eye damage May cause an allergic skin reaction



### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection Contaminated work clothing should not be allowed out of the workplace

### Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician Specific treatment (see .? on this label)

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 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical advice/attention IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Do NOT induce vomiting

### **Precautionary Statements - Storage**

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

#### **Precautionary Statements - Disposal** Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Not applicable

### Other Information

May be harmful in contact with skin. Harmful to aquatic life with long lasting effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
2-PIPERAZINE-1-YLETHYLAMINE	140-31-8	15 - 40

### 4. FIRST AID MEASURES

### Description of first aid measures

**General advice** 

Get medical advice/attention if you feel unwell.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

	present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
Skin contact	IF ON SKIN:. Wash skin with soap and water. If skin irritation persists, call a physician. Take off contaminated clothing and wash before reuse.	
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.	
Ingestion	IF SWALLOWED:. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.	
Most important symptoms and effects, both acute and delayed		
Symptoms	See section 2 for more information.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	
5. FIRE-FIGHTING MEASURES		
<u>Suitable extinguishing media</u> Carbon dioxide (CO2), Use dry chemical, Foam		
Unsuitable extinguishing media None		
Specific hazards arising from the chemical None in particular.		
Explosion data		

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin. Use personal protective equipment as required.	
Environmental precautions		
Environmental precautions	See section 12 for additional ecological information.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Use personal protective equipment as required.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	

# 7. HANDLING AND STORAGE Precautions for safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing Advice on safe handling vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required. Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a dry, cool and well-ventilated place. **Storage Conditions** Incompatible materials Strong oxidizing agents 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Control parameters Appropriate engineering controls **Engineering Controls** Showers Eyewash stations Ventilation systems Individual protection measures, such as personal protective equipment Eye/face protection Wear safety glasses with side shields (or goggles). Skin and body protection Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves. **Respiratory protection** Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate. **General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended. 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	Yellow liquid	
Odor	Amine	
Color	Yellow	
Odor threshold	No information available	
<b>D</b>	Mal and	Design Martin
Property	<u>Values</u>	Remarks • Method
рН	No information available	
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	>100°C (> 212°F)	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	No information available	
Solubility(ies)	No information available	
Partition coefficient	No information available	

Autoignition temperature
<b>Decomposition temperature</b>
Kinematic viscosity
Dynamic viscosity
Explosive properties
Oxidizing properties

Other Information Softening point Molecular weight Density Bulk density SADT (self-accelerating decomposition temperature) No information available No information available

No information available No information available No information available No information available No information available

### **10. STABILITY AND REACTIVITY**

#### <u>Reactivity</u> No information available

#### <u>Chemical stability</u> Stable under normal conditions

### Possibility of Hazardous Reactions

None under normal processing.

# Conditions to avoid

Excessive heat.

#### Incompatible materials Strong oxidizing agents

### Hazardous Decomposition Products

Carbon oxides

### **11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

homical Nama	Orol J DE0	Dermel LDE0	Inholotion I CEO
Ingestion	Ingestion may cause irrita	tion to mucous membranes.	
Skin contact	May cause skin irritation a	and/or dermatitis.	
Eye contact	Contact with eyes may ca	use irritation. May cause redness a	nd tearing of the eyes.
Inhalation	May cause irritation of res	piratory tract.	

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-PIPERAZINE-1-YLETHYLAMINE	= 2140 µL/kg (Rat)	= 880 µL/kg (Rabbit)	-
140-31-8			

### Information on toxicological effects

Symptoms

No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	1071	mg/kg
ATEmix (dermal)	2772	mg/kg

# **12. ECOLOGICAL INFORMATION**

Yes.

### Ecotoxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

### Persistence and degradability

No information available.

### **Bioaccumulation**

No information available.

### <u>Mobility</u>

No information available.

Chemical Name	Partition coefficient
2-PIPERAZINE-1-YLETHYLAMINE	-1.48
140-31-8	

### Other adverse effects

No information available

# **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods	
Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.
US EPA Waste Number	Not applicable

# 14. TRANSPORT INFORMATION

DOTUN/ID No	UN2735
Proper shipping name	Amines, liquid, corrosive, n.o.s., (N-Aminoethylpiperazine, Phenol, Styrenated) Limited Quantity (LQ)
Hazard Class	8
Packing Group	
Marine pollutant	Yes.
ΙΑΤΑ	
UN/ID No	UN2735
Proper shipping name	Amines, liquid, corrosive, n.o.s., (N-Aminoethylpiperazine, Phenol, Styrenated) Limited Quantity (LQ)
Hazard Class	8
Packing Group	III
IMDG_ UN/ID No	UN2735

Proper shipping name	Amines, liquid, corrosive, n.o.s., (N-Aminoethylpiperazine, Phenol, Styrenated) Limited Quantity (LQ)
Hazard Class	8
Packing Group	III
EmS-No	F-A, S-B
Marine pollutant	Yes.

### 15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

#### Legend:

 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

 ENCS - Japan Existing and New Chemical Substances

 IECSC - China Inventory of Existing Chemical Substances

 KECL - Korean Existing and Evaluated Chemical Substances

 PICCS - Philippines Inventory of Chemicals and Chemical Substances

 AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-PIPERAZINE-1-YLETHYLAMINE	Х	Х	Х
140-31-8			

### U.S. EPA Label Information

### EPA Pesticide Registration Number Not applicable

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health hazards 3	Flammability 1
HMIS	Health hazards 3	Flammability 1

Instability 0 Physical hazards 0

Personal protection C

NFPA (National Fire Protection Association) HMIS (Hazardous Material Information System)

Revision Date

14-Oct-2020

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**End of Safety Data Sheet**