

Revision Date 17-Jul-2024

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Version 2

# **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, Inc. 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

E-mail address: mail@permatex.com

# 2. HAZARDS IDENTIFICATION

## **Classification**

## **OSHA Regulatory Status**

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

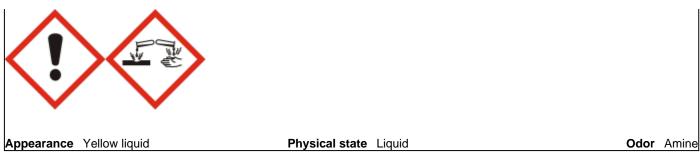
Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1

#### 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 clothing, gloves, and eye protection or face shield Contaminated work clothing must 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	25 - <50%

## 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 effe	cts, both acute and delayed	
Symptoms	See section 2 for more information.	
Indication of any immediate medica	al 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 Sensitivity to Static Discharge	None. 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	
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing 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, includ	ing any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible materials	Strong oxidizing agents
8. EX	POSURE CONTROLS/PERSONAL PROTECTION
Control parameters	
Appropriate engineering controls	
Engineering Controls	Showers Eyewash stations Ventilation systems
Individual protection measures, su	ich 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

Property_	Values	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	

Yellow

No information available

Color

Odor threshold

Vapor pressure Vapor density Relative density Water solubility Solubility(ies) Partition coefficient Autoignition temperature Hyphen 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 Immiscible in water 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

## Chemical stability

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

Inhalation	May cause irritation of respiratory tract.
Eye contact	Contact with eyes may cause irritation. May cause redness and tearing of the eyes.
Skin contact	May cause skin irritation and/or dermatitis.
Ingestion	Ingestion may cause irritation to mucous membranes.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-PIPERAZINE-1-YLETHYLAMINE	= 2140 µL/kg (Rat)	= 866 mg/kg (Rabbit)	-
140-31-8			

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

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

Sensitization	N
Germ cell mutagenicity	Ν
Carcinogenicity	N

No information available. No information available. No information available.

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

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

#### Mobility

\_ \_ \_

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**

DOT	
UN/ID No	UN2735
Proper shipping name	Amines, liquid, corrosive, n.o.s., (N-Aminoethylpiperazine, Phenol, Styrenated) Limited Quantity (LQ)
Transport hazard class(es)	8
Packing Group	
Marine pollutant	Yes.

#### ΙΑΤΑ

UN number or ID number Proper shipping name	UN2735 Amines, liquid, corrosive, n.o.s., (N-Aminoethylpiperazine, Phenol, Styrenated) Limited Quantity (LQ)
Transport hazard class(es)	8
Packing group	III
IMDG	
UN number or ID number	UN2735
Proper shipping name	Amines, liquid, corrosive, n.o.s., (N-Aminoethylpiperazine, Phenol, Styrenated) Limited Quantity (LQ)
Transport hazard class(es)	8
Packing Group	
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
KECI	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

#### SARA 311/312 Hazard Categories

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	Instability 0	-
HMIS	Health hazards 3	Flammability 1	Physical hazards 0	Personal protection C

Revision Date 17-Jul-2024

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**End of Safety Data Sheet**