

Revision Date 20-Mar-2018

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SAFETY DATA SHEET

Version 5

	1. IDENTIFICATION			
<u>Product identifier</u> Product Name	84109 STEEL WELD (HARDENER)			
Other means of identification Product Code	PTX203008B			
Recommended use of the chemical	and restrictions on use			
Recommended Use	Epoxy curing agent.			
Uses advised against	No information available			
Details of the supplier of the safety Manufacturer Address ITW Permatex 6875 Parkland Blvd. Solon, OH 44139 USA	<u>data sheet</u> <u>May Also Be Distributed by:</u> ITW Permatex Canada 35 Brownridge Road, Unit 1 Halton Hills, ON Canada L7G 0C6 Telephone: (800) 924-6994			
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

1 IDENTIFICATION

Classification

OSHA Regulatory Status

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

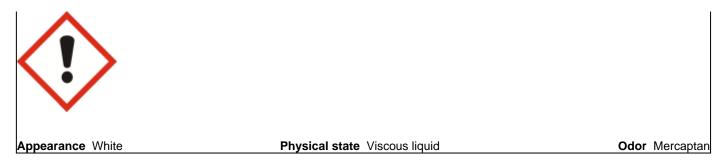
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1

Label elements

Emergency Overview

<u>Signal word</u> Warning

Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction



Precautionary Statements - Prevention

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

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention 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 IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

- Not applicable

Unknown acute toxicity

98 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance(s)

Chemical Name	CAS No	Weight-%
MERCAPTAN AMINE		30 - 60
2,4,6-TRIS(DIMETHYLAMINOMETHY L)PHENOL	90-72-2	10 - 30
CRYSTALLINE SILICA	14808-60-7	0.1 - 1

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 with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing 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), Dry chemical,	Foam			
<u>Unsuitable extinguishing media</u> None.				
Specific hazards arising from the c None in particular.	hemical			
<u>Explosion data</u> Sensitivity to Mechanical Impact 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 e	6. ACCIDENTAL RELEASE MEASURES			
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	quipment and emergency procedures Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin.			
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Personal precautions <u>Environmental precautions</u> Environmental precautions <u>Methods and material for containment</u> Methods for containment	quipment and emergency procedures Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin. Use personal protective equipment as required. See Section 12 for additional Ecological Information. ent and cleaning up Prevent further leakage or spillage if safe to do so. Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel			
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Personal precautions Environmental precautions Environmental precautions Methods and material for containment Methods for containment Methods for cleaning up Prevention of secondary hazards	quipment and emergency procedures Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin. Use personal protective equipment as required. See Section 12 for additional Ecological Information. ent and cleaning up Prevent further leakage or spillage if safe to do so. Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Clean contaminated objects and areas thoroughly observing environmental regulations.			

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

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.	
Incompatible materials	Strong oxidizing agents, Acids, Peroxides, Calcium hypochlorite, Sodium hypochlorite	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
CRYSTALLINE SILICA	TWA: 0.025 mg/m ³ respirable	(vacated) TWA: 0.1 mg/m ³	IDLH: 50 mg/m ³ respirable dust
14808-60-7	fraction	respirable dust	TWA: 0.05 mg/m ³ respirable dust
		: (30)/(%SiO2 + 2) mg/m ³ TWA	
		total dust	
		: (250)/(%SiO2 + 5) mppcf TWA	
		respirable fraction	
		: (10)/(%SiO2 + 2) mg/m ³ TWA	
		respirable fraction	

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

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

Information on basic physical and chemical properties

Physical state Appearance Odor Odor threshold	Viscous liquid White Mercaptan No information available	
<u>Property</u> pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air	<u>Values</u> No information available No information available No information available > 93 °C / > 200 °F No information available No information available	<u>Remarks • Method</u>

Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density Relative density Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties	No information available No information available <1mmHg @ 70°F >1 1.13 Negligible No information available No information available
Other Information	
Softening point Molecular weight VOC Content (%) Density Bulk density	No information available No information available 0 No information available No information available

10. STABILITY AND REACTIVITY

Air = 1

Reactivity

Stable under normal conditions

Chemical stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Excessive heat.

Incompatible materials Strong oxidizing agents, Acids, Peroxides, Calcium hypochlorite, Sodium hypochlorite

Hazardous Decomposition Products

Carbon oxides Nitrogen oxides (NOx) Oxides of sulfur

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. May cause sensitization by skin contact.	
Ingestion	Ingestion may cause irritation to mucous membranes.	

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,4,6-TRIS(DIMETHYLAMINOMET	= 1200 mg/kg (Rat)	= 1280 mg/kg (Rat)	-
HYL)PHENOL			
90-72-2			
CRYSTALLINE SILICA	= 500 mg/kg (Rat)	-	-
14808-60-7	· ·		

Information on toxicological effects

Symptoms

No information available.

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

Sensitization Germ cell mutagenicity Carcinogenicity	No informatio No informatio The table belo	n available.	h agency has listed any ing	redient as a carcinogen.
Chemical Name	ACGIH	IARC	NTP	OSHA
CRYSTALLINE SILICA 14808-60-7	A2	Group 1	Known	Х
A2 - Suspected Human C IARC (International Age Group 1 - Carcinogenic to NTP (National Toxicolog Known - Known Carcinog	ncy for Research on Cancel o Humans gy Program))	of Labor)	
Target Organ Effects	Eyes, Respira	atory system, Skin.		
The following values are ATEmix (oral)	calculated based on cha 4400 mg/kg	pter 3.1 of the GHS doc	ument .	

12. ECOLOGICAL INFORMATION

Ecotoxicity

99.5 % 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.

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

Proper shipping name:

Not regulated

IATA Proper shipping name: Not regulated

IMDG

Proper shipping name: Not regulated

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Not determined
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
 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	Yes
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

Chemical Name	California Proposition 65	
CRYSTALLINE SILICA - 14808-60-7	*Carcinogen	

• *The asterisked chemical(s) listed are not subject to Proposition 65 because they are not airborne in the finished product U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
LIMESTONE	Х	Х	Х

1317-65-3			
CRYSTALLINE SILICA	X	X	Х
14808-60-7			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

WHMIS Hazard Class

D2B - Toxic materials

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

NFPA	
HMIS	

Health hazards 2 Health hazards 2 Flammability 1 Flammability 1 Instability 0 Physical hazards 0

Personal protection B

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

Revision Date

20-Mar-2018

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet