

Revision Date 12-Apr-2022

SAFETY DATA SHEET

Version 4

1. IDENTIFICATION

Product identifier Product Name

VERSACHEM STEEL WELD EPOXY (HARDENER)

Other means of identification Product Code 47709V

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

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2. HAZARDS 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 1
Skin sensitization	Category 1

Label elements

Emergency Overview

<u>Signal word</u> Danger

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

47709V - VERSACHEM STEEL WELD EPOXY (HARDENER)



Physical state Liquid

Odor Ammonia

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective clothing, gloves, and eye protection or face shield Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace

Precautionary Statements - Response

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

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

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-%
CALCIUM CARBONATE	471-34-1	10 - 30
2,4,6-TRIS(DIMETHYLAMINOMETHY L)PHENOL	90-72-2	3 - 7
TRIETHYLENETETRAMINE	112-24-3	3 - 7
TETRAETHYLENEPENTAMINE	112-57-2	1 - 5

4. FIRST AID MEASURES

Description of first aid measures

General advice If symptoms persist, call a physician.

Eye contactIF 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. Immediately flush with plenty of water. After initial flushing, remove any
contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while

	rinsing. If symptoms persist, call a physician.	
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with soap and water. Call a physician immediately. Wash contaminated clothing before reuse. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.	
Inhalation	Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.	
Ingestion	IF SWALLOWED:. Call a physician or poison control center immediately. Rinse mouth. Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Call a physician. Do NOT induce vomiting.	
Self-protection of the first aider	Use personal protective equipment as required.	
Most important symptoms and effects, 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> Use, Use dry chemical, Carbon dioxide (CO2), Water spray (fog), Alcohol resistant foam		
Unsuitable extinguishing media		

None

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion data Sensitivity to Mechanical Imp

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 skin, eyes or clothing. Use personal protective equipment as required. Wash thoroughly after handling. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. 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	Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.	
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 Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Store locked up. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
CALCIUM CARBONATE	-	-	TWA: 10 mg/m ³ total dust
471-34-1			TWA: 5 mg/m ³ respirable dust

NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Controls	Showers
	Eyewash stations
	Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection	Tight sealing safety 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	When using do not eat, drink or smoke. 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

Off-white Appearance Odor Ammonia Odor threshold No information available **Property** Values Remarks • Method No information available Hα Melting point / freezing point No information available Boiling point / boiling range > 171 °C / > 339.8 °F > 95 °C / > 203 °F Flash point **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 <1 mmHg @ 68°F Vapor pressure Vapor density >1 Air = 1**Relative density** 1.03 Water solubility Partially soluble No information available Solubility(ies) No information available **Partition coefficient** Autoignition temperature No information available Hyphen No information available **Kinematic viscosity** No information available **Dynamic viscosity** No information available **Explosive properties** No information available **Oxidizing properties** No information available Other Information Softening point No information available Molecular weight No information available Density No information available **Bulk density** No information available SADT (self-accelerating No information available decomposition temperature)

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stable under normal conditions

Possibility of Hazardous Reactions None under normal processing.

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

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

Hazardous Decomposition Products

Carbon oxides Nitrogen oxides (NOx) Ammonia Amines

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Causes burns.
Eye contact	Risk of serious damage to eyes. May cause burns.
Skin contact	May cause sensitization by skin contact. Contact causes severe skin irritation and possible burns.
Ingestion	Harmful if swallowed. Can burn mouth, throat, and stomach.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
CALCIUM CARBONATE 471-34-1	= 6450 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 3 mg/L (Rat)4 h
2,4,6-TRIS(DIMETHYLAMINOMET HYL)PHENOL 90-72-2	= 1200 mg/kg (Rat)	= 1280 mg/kg(Rat)	-
TRIETHYLENETETRAMINE 112-24-3	= 2500 mg/kg (Rat)	= 550 mg/kg (Rabbit)	-
TETRAETHYLENEPENTAMINE 112-57-2	= 3990 mg/kg (Rat)	= 660 µL/kg (Rabbit)	-

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

No information available.
No information available.
No information available.
Eyes, Respiratory system, Skin.

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

ATEmix (oral)	7393 mg/kg
ATEmix (dermal)	2016 mg/kg
ATEmix (inhalation-dust/mist)	12 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

0.5 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Chemical name	Partition coefficient
TRIETHYLENETETRAMINE	-1.4
112-24-3	
TETRAETHYLENEPENTAMINE	<1
112-57-2	

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	Not determined

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

Reactive Hazard

<u>SARA 313</u>

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

Yes Yes No No

No

SARA 311/312 Hazard Categories	
Acute health hazard	
Chronic Health Hazard	
Fire hazard	
Sudden release of pressure hazard	

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
TRIETHYLENETETRAMINE	Х	Х	Х
112-24-3			

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	Health hazards	3	Flam
HMIS	Health hazards	3	Flam

ammability 1 ammability 1

Instability 0 Physical hazards 0

Personal protection B

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

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End of Safety Data Sheet