Mr Volcano

8769 Jefferson Hwy
Osseo, MN 55369

SAFETY DATA SHEET

Mr Volcano Rigidizer

Revision Date: 29 October 2025

1) IDENTIFICATION

PRODUCT NAME	**Mr Volcano Rigidizer**
IDENTIFICATION NUMBER	CS0138
PRODUCT USE/CLASS	Suspension of amorphous silica in water
CAS NUMBER	Mixed see section 3

SUPPLIER:

IE Works
8769 Jefferson Hwy
Osseo, MN 55369
Phone: 612-412-1390

Emergency telephone: 612-412-1390 8:00am - 3:00pm Monday to Friday

2) HAZARD(S) IDENTIFICATION

Classification:

Acute Toxicity: Oral Category 4
Skin Irritation: Category 2
Specific target organ-single exposure: Category 1 (Central Nervous system, Kidney)
Specific target organ-repeated exposure: Category 2 (Central Nervous system, Kidney)

GHS Label Elements:

Symbol(s):

Signal Word(s): Danger

Hazard statement(s):

H302 Harmful if swallowed.
H315 Causes skin irritation

H370 Causes damage to organs (Central Nervous system, Kidney) if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s):

Prevention:

P26 Do not breathing dust/fume/mists
P264 Wash hands thoroughly after handling
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/clothing/eye/face protection

Response:

P301+P312 IF SWALLOWED: Call a POISON CNETER or doctor/physician if you fell unwell.
P330 Rinse mouth
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.
P314 Get medical advice/attention if you feel unwell.

Storage: P402+P404 Store in a dry place. Store in a closed container.

Disposal: P501 Dispose of contents/container according to all applicable Local/State/Federal regulations.

Other Hazards: See Section 11 for health effects. See Section 12 for environmental effects.

3) COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT NAME	CAS NUMBER	Concentration (% by wt)
Synthetic Amorphous Silica	7631-86-9	5-50 %
Ethylene Glycol	107-21-1	<6 %

Other Comments: Material is considered hazardous according to GHS and OSHA regulations.

4) FIRST AID MEASURES

First aid measures:

Eye: Remove any contact lenses if easily done. Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

Skin: Wash with soap and water. Get medical attention if irritation develops or persists.

Inhalation: In case product dust/fumes/mist is released: Possible discomfort via coughing and sneezing. Remove to fresh air.

Oral: If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention.

Most important symptoms/effects: None known

Notes to physician: No hazards which require special first aid measures

5) FIRE FIGHTING MEASURES

Flammability assessment: **Not flammable**

Unsuitable extinguishing media: **None Known**

Specific firefighting measures: All extinguishing methods are suitable for any firefighting in area of product storage or use.

Specific hazards during firefighting: **None known**

Special protective equipment and Precautions for firefighters: As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

6) ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear personal protective equipment. See section 8

Methods and materials for containment and cleaning up:

Build dike to contain flow. Remove free liquid. Contain spill and keep from entering waterways or sewers. Absorb or inert material. Shovel, sweep, or vacuum spill and place in closed container for disposal according to local, state, and federal regulations.

7) HANDLING AND STORAGE

Precautions for safe handling:

Wear personal protective equipment. Avoid formation of respirable particles. Avoid inhalation of dust/fumes/mist. Do not breathe dust or mist. Avoid direct contact with eyes, skin, or clothing. Wash hands before breaks and at the end of the day.

Conditions for safe storage:

Keep from Freezing. Keep container closed in a dry, cool place when not in use. Avoid dust formation. Provide appropriate exhaust ventilation where dust is formed.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS								
Component	**CAS #**	**OSHA PEL**		**ACGIH TLV**		**NIOSH REL**		**FORM**
		TWA	CEILING	TWA	STEL	TLV-TWA	SKIN	
Silica, Amorphous		0.8 mg/m3	20 mppcf					Powder
Dust	N.A	5 mg/m3	10 mg/m3	3 mg/m3	10 mg/mg3			Dust
Ethylene Glycol	107-21-1			100 mg/m^3	(Ceiling)			Mist

Engineering Controls:

Local Ventilation: Provide adequate exhaust ventilation to keep dust concentration below occupational exposure guidelines. (3mg/m^3).

General Ventilation: Recommended

Personal Protective Equipment for Routine Handling and Spills:

Eyes:	Wear safety glasses with side shields (or goggles) and a face shield.
Skin:	The glove(s) listed below may provide protection against permeation.
Suitable Gloves:	rubber, leather, latex, nitrile
Inhalation/Suitable Respirator:	A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. Niosh's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.
Precautionary Measures:	Wash hands before eating or smoking. Remove contaminated clothing and wash before reuse.

9) PHYSICAL AND CHEMICAL PROPERTIES

Flash Point:		NA
Flammability Limits in Air:	**Lower Limit**	NA
	Upper Limit	NA
Auto-ignition Temperature:		NA
Decomposition Temperature:		NA
Flammability:		Not Flammable
Appearance:		Clear to white liquid
Odor:		None
Odor Threshold:		NA
pH (100.0 % @ 25°C):		8.0 - 10.5
Melting/Freezing Point:		<32 F/ -5 C
Boiling Point:		212 F / 100 C
Evaporation Rate:		Equal to water
Viscosity @ 25°C:		< 10 cPs
Volatile Organic %:		ND
Vapor Pressure:		NA
Vapor Density (Air=):		ND
Bulk Density @ 25°C:		NA
Relative Density @ 25°C:		1.0-1.5
Solubility in Water:		Miscible
Partition Coefficient (n-octanol/water):		NA

The Physical data presented here are representative values, as the actual product's values may vary slightly.

10) STABILITY AND REACTIVITY

Reactivity:	None expected
Chemical stability:	Stable under normal storage/use conditions

Possibility of hazardous reactions:	None known
Conditions to avoid:	None known
Incompatible materials:	None known
Hazardous decomposition products:	Material if ignited may produce Carbon oxides.

11) TOXICOLOGICAL INFORMATION

Acute Toxicity:

Oral:	LD50 Rat: >7,712 mg/kg Mean lethal dose (estimated): >1,400-1,600 mg/kg
Dermal:	LD50 Mouse: >3500 mg/kg
Inhalation:	Material does not meet criteria for classification
Skin corrosion/irritation:	Classified: Caused skin irritation.
Serious eye damage/irritation:	Material does not meet criteria for classification
Respiratory sensitization:	Silicosis or other product specific illness or the respiratory tract has not been reported.
Skin sensitization:	Prolonged or repeated contact can result in drying of the skin which may result in skin irritation and dermatitis (rash).
Specific Target Organ Toxicity (single exposure):	Central Nervous system, Kidney
Aspiration hazard:	Material does not meet criteria for classification

Chronic Effects:

Germ cell mutagenicity:	Material does not meet criteria for classification
Carcinogenicity:	Material does not meet criteria for classification
Reproductive toxicity:	Material does not meet criteria for classification
Specific Target Organ Toxicity (repeated exposure):	Central Nervous system, Kidney

Likely Routes of Exposure/Symptoms:

Eye:	May cause eye irritation

Skin:	Prolonged or repeated contact can result in drying of the skin which may result in skin irritation and dermatitis (rash).
Inhalation:	Prolonged inhalation may cause irritations of the respiratory tract.
Oral:	H302 Harmful if swallowed.

12) ECOLOGICAL INFORMATION

Ecotoxicity:	Toxicity to fish:LC50 (Brachrdanio reio): >10000 mg/l /96 hr. Method: OECD 203 Toxicity to daphnia:EC50 Daphnia magna: >10000 mg/l /24 hr. Method: OECD 202
Persistence and degradability:	Solids removed from water by sedimentation or binding to sludge.
Bioaccumulative potential:	Solution is not expected to bio-accumulate.
Mobility in soil:	Not expected
Other adverse effects:	Increase in TSS. Materials can be removed by sedimentation or flocculation into sludge.

13) DISPOSAL CONSIDERATIONS

Disposal considerations:

Dispose as dry waste in accordance with all local, state and federal regulations.

Empty container warnings:

If discarded in its purchased form, this product could be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

14) TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101): Not regulated by the DOT as hazardous

UN Number:
DOT Proper Shipping Name:
DOT Technical Name:
DOT Hazard Class(es):
DOT Packing Group:
Marine Pollutant:

Air Shipment (IATA):

Ocean Shipment (IMDG):
Transport in bulk:

Special precautions:

15) REGULATORY INFORMATION

International Chemical Inventory Status:

USA (TSCA):	Components of this product are listed
DSL:	Components of this product are listed
EINICS:	Components of this product are listed
AICS:	Components of this product are listed
CANADIAN WHMIS:	This SDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.
CANADIAN WHMIS CLASS:	Not a WHMIS control material.

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances:

Component Name	CAS Number	wt %	Hazard
Ethylene Glycol	107-21-1	<6 %	toxicity

Section 304 CERCLA Hazardous Substances:

Component Name	CAS Number	wt%	Reportable Quantity (#)
Ethylene Glycol	107-21-1	<6 %	**5000**

Section 312 Hazard Class:

Acute:	☒	Yes	☐	No
Chronic:	☒	Yes	☐	No
Fire:	☐	Yes	☒	No
Pressure:	☐	Yes	☒	No
Reactivity:	☐	Yes	☒	No

Section 313 Toxic Chemicals: Only chemicals which exceed the reporting threshold are included below:

Component Name	CAS Number	wt%
Ethylene Glycol	**107-21-1**	**1**

Other Regulatory Concerns:

State right to know:

Components	CAS Number	CA Prop 65	NJ	PA	MA
Amorphous Silica	7631-86-9			Yes	

Ethylene Glycol	107-21-1	No	Yes	Yes	Yes

16) - OTHER INFORMATION

Revision date: **25 September 2023**
Reason for change: **Document Review**
Revised by: **AW**
Reviewed by: **AW**
Approval date: **04 October 2023**
Version: **6**

	Health	Fire	Reactivity	Special
HMIS:	**2**	**0**	**0**	

Note: HMIS ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information in the SDS must be considered.

HMIS = Hazardous Material Information System
***Chronic effect**

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