

## SECTION 1: IDENTIFICATION

### Product Identifier

**Product Form:** Mixture

**Product Name:** PDN-50 Detergent

**Product Code:** 7310

**Synonyms:** PDN-50 Detergent

### Intended Use of the Product

**Use of the Substance/Mixture:** Low foaming powdered alkaline cleaner used in a spray washer for cleaning metal parts. For professional use only.

### Name, Address, and Telephone of the Responsible Party

#### **Company**

Better Engineering Mfg., Inc.

1802 Fashion Court

Joppa, Maryland 21085 USA

T: 800-229-3380

[www.betterengineering.com](http://www.betterengineering.com)

#### **Emergency Telephone Number**

**Emergency number** : 1-800-535-5053 (INFOTRAC)

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

#### **Classification (GHS-US)**

Met. Corr. 1 H290

Skin Corr. 1C H314

Eye Dam. 1 H318

Aquatic Acute 2 H401

Aquatic Chronic 2 H411

### Label Elements

#### **GHS-US Labeling**

#### **Hazard Pictograms (GHS-US)**



#### **Signal Word (GHS-US)**

: Danger

#### **Hazard Statements (GHS-US)**

: H290 - May be corrosive to metals  
H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H401 - Toxic to aquatic life  
H411 - Toxic to aquatic life with long lasting effects

#### **Precautionary Statements (GHS-US)**

: P234 - Keep only in original container.  
P260 - Do not breathe dust, fumes.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection, respiratory protection.  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.

P321 - Specific treatment (see section 4.)

P363 - Wash contaminated clothing before reuse.

P390 - Absorb spillage to prevent material damage.

P391 - Collect spillage.

P405 - Store locked up.

P406 - Store in corrosive resistant container with a resistant inner liner.

P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

### Other Hazards

#### Other Hazards Not Contributing to the Classification:

**Other Hazards:** Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. When heated to decomposition, emits toxic fumes.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

Name	Product identifier	% (w/w)	Classification (GHS-US)
Sodium carbonate	(CAS No) 497-19-8	40 - 50	Eye Irrit. 2A, H319
Pentasodium triphosphate	(CAS No) 7758-29-4	10 – 20	Not classified
Sodium metasilicate	(CAS No) 6834-92-0	10 - 20	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Sodium nitrite	(CAS No) 7632-00-0	5 – 10	Ox. Sol. 2, H272 Acute Tox. 3 (Oral), H301 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Oxirane, methyl-, polymer with oxirane, 1-ethoxyethyl 4-tripropylenephenyl ether 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and ethyl 2-propenoate, bis(1-methyl-1-phenylethyl) peroxide-initiated	(CAS No) 160799-28-0	1 – 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Tetrasodium EDTA tetrahydrate	(CAS No) 13235-36-4	1 - 5	Comb. Dust Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention.

**Skin Contact:** Remove contaminated clothing. Immediately flush skin with plenty of water for at least 15 minutes. Get immediate medical advice/attention. Wash contaminated clothing before reuse.

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**Eye Contact:** Seek medical attention immediately. Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

### **Most Important Symptoms and Effects Both Acute and Delayed**

**General:** Causes serious eye damage. Corrosive to eyes, respiratory system and skin.

**Inhalation:** Contact may cause immediate severe irritation progressing quickly to chemical burns.

**Skin Contact:** Causes severe skin burns and eye damage.

**Eye Contact:** Causes serious eye damage.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects. Contact may cause immediate severe irritation progressing quickly to chemical burns.

**Chronic Symptoms:** Not available

### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention.

## **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide, foam, dry chemical.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Not flammable

**Explosion Hazard:** None known

**Reactivity:** Thermal decomposition generates: Corrosive vapors. When heated to decomposition, emits toxic fumes.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Phosphorus oxides. Carbon oxides (CO, CO<sub>2</sub>). Toxic fumes are released. Nitrogen oxides.

**Other information:** Do not allow run-off from firefighting to enter drains or water courses.

### **Reference to Other Sections**

Refer to section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Do not allow product to spread into the environment. Do NOT breathe (dust, fumes). Do not get in eyes, on skin, or on clothing. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid generating dust.

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

### **Environmental Precautions**

Prevent entry to sewers and public waters. Avoid release to the environment.

### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Avoid generation of dust during clean-up of spills.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Use explosion proof vacuum during cleanup, with appropriate filter, do not mix with other materials. Contact competent authorities after a spill. Minimize generation of dust.

### **Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Additional Hazards When Processed:** When heated to decomposition, emits toxic fumes. Corrosive vapors are released.

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**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when usingg this product. Wash hands and forearms thoroughly after handling.

### **Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Comply with applicable regulations. Ground/bond container and receiving equipment. Use explosion proof equipment.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from incompatible materials.

**Incompatible Materials:** Acids. Strong oxidizers.

**Special Rules on Packaging:** Keep only in original container.

### **Specific End Use(s)**

Low foaming powdered alkaline cleaner used in a spray washer for cleaning metal parts.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control Parameters**

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

### **Exposure Controls**

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas. Alarm detectors should be used when toxic gases may be released. Ground/bond container and receiving equipment. Use explosion-proof equipment.

**Personal Protective Equipment:** Protective goggles. Protective clothing. Insufficient ventilation: wear respiratory protection. Gloves. Face shield.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics. Corrosion-proof clothing.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or face shield.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### **Information on Basic Physical and Chemical Properties**

Physical State	: Solid
Appearance	: Off-white, Powder
Odor	: Lemon
Odor Threshold	: Not available
pH	: 11.8 (1%)
Relative Evaporation Rate (butylacetate=1)	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: Not available
Flash Point	: None
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not flammable
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available

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<b>Vapor Pressure</b>	: Not available
<b>Relative Vapor Density at 20 °C</b>	: Not available
<b>Specific Gravity</b>	: Not available
<b>Solubility</b>	: Complete.
<b>Partition coefficient: n-octanol/water</b>	: Not available
<b>Viscosity</b>	: Not available
<b>Explosion Data – Sensitivity to Mechanical Impact</b>	: Not expected to present an explosion hazard due to mechanical impact.
<b>Explosion Data – Sensitivity to Static Discharge</b>	: Not expected to present an explosion hazard due to static discharge

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Thermal decomposition generates: Corrosive vapors. When heated to decomposition, emits toxic fumes. Toxic Gas.

**Chemical Stability:** Stable

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Incompatible materials.

**Incompatible Materials:** Acids, strong oxidizers.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>). Thermal decomposition generates: Toxic gases. Phosphorus oxides. Ammonia. Nitrogen oxides.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:**

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ATE US (oral)	2080.131 mg/kg body weight

**Skin Corrosion/Irritation:** Causes severe skin burns and eye damage. **pH:** 11.8 (1%)

**Serious Eye Damage/Irritation:** Causes serious eye damage. **pH:** 11.8 (1%)

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not available

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Contact may cause immediate severe irritation progressing quickly to chemical burns.

**Symptoms/Injuries After Skin Contact:** Causes severe skin burns and eye damage.

**Symptoms/Injuries After Eye Contact:** Causes serious eye damage.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects. Contact may cause immediate severe irritation progressing quickly to chemical burns.

#### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

Oxirane, methyl-, polymer with oxirane, 1-ethoxyethyl 4-tripropylphenyl ether 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and ethyl 2-propenoate, bis(1-methyl-1-phenylethyl) peroxide-initiated (160799-28-0)	
LD50 Oral Rat	> 1000 mg/kg
LD50 Dermal Rabbit	4760 mg/kg
Tetrasodium EDTA tetrahydrate (13235-36-4)	
ATE US (oral)	500.00 mg/kg body weight
Sodium nitrite (7632-00-0)	
LD50 Oral Rat	180 mg/kg
LC50 Inhalation Rat	5.5 mg/l/4h

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<b>Pentasodium triphosphate (7758-29-4)</b>	
LD50 Oral Rat	3100 mg/kg
LD50 Dermal Rabbit	> 7940 mg/kg
<b>Sodium carbonate (497-19-8)</b>	
LD50 Oral Rat	4090 mg/kg
LC50 Inhalation Rat	2300 mg/m <sup>3</sup> (Exposure time: 2 h)
<b>Sodium metasilicate (6834-92-0)</b>	
LD50 Oral Rat	1153

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

**Ecology - General:** Toxic to aquatic life with long lasting effects.

<b>Oxirane, methyl-, polymer with oxirane, 1-ethoxyethyl 4-tripropylphenyl ether 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and ethyl 2-propenoate, bis(1-methyl-1-phenylethyl) peroxide-initiated (160799-28-0)</b>	
LC50 Fish 1	2.7 mg/l Species: Pimephales promelas, exposure time 96 h

<b>Sodium nitrite (7632-00-0)</b>	
LC50 Fish 1	0.19 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
LC 50 Fish 2	0.092 - 0.13 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

<b>Sodium carbonate (497-19-8)</b>	
LC50 Fish 1	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	265 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

<b>Sodium metasilicate (6834-92-0)</b>	
LC50 Fish 1	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
LC 50 Fish 2	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)

### Persistence and Degradability

<b>PDN-50 Detergent (7310)</b>	
Persistence and Degradability	May cause long-term adverse effects in the environment.

### Bioaccumulative Potential

<b>PDN-50 Detergent (7310)</b>	
Bioaccumulative Potential	Not established.

<b>Sodium nitrite (7632-00-0)</b>	
Log Pow	-3.7 (at 25 °C)

<b>Sodium carbonate (497-19-8)</b>	
BCF fish 1	(no bioaccumulation)

**Mobility in Soil** Not available

### Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology – Waste Materials:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 In Accordance with DOT

Proper Shipping Name	: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Disodium Trioxosilicate Pentahydrate)
Hazard Class	: 8
Identification Number	: UN3262
Label Codes	: 8
Packing Group	: III



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**Marine Pollutant** : Marine pollutant

**ERG Number** : 154

### 14.2 In Accordance with IMDG

**Proper Shipping Name** : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Disodium Trioxosilicate Pentahydrate)

**Hazard Class** : 8

**Identification Number** : UN3262

**Packing Group** : III

**Label Codes** : 8

**EmS-No. (Fire)** : F-A

**EmS-No. (Spillage)** : S-B

**Marine pollutant** : Marine pollutant



### 14.3 In Accordance with IATA

**Proper Shipping Name** : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Disodium Trioxosilicate Pentahydrate)

**Packing Group** : III

**Identification Number** : UN3262

**Hazard Class** : 8

**Label Codes** : 8

**ERG Code (IATA)** : 8L



### 14.4 In Accordance with TDG

**Proper Shipping Name** : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Disodium Trioxosilicate Pentahydrate)

**Packing Group** : III

**Hazard Class** : 8

**Identification Number** : UN3262

**Label Codes** : 8

**Marine Pollutant (TDG)** : Marine pollutant



## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

<b>PDN-50 Detergent (7310)</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Immediate (acute) health hazard
<b>Oxirane, methyl-, polymer with oxirane, 1-ethoxyethyl 4-tripropylphenyl ether 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and ethyl 2-propenoate, bis(1-methyl-1-phenylethyl) peroxide-initiated (160799-28-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Sodium nitrite (7632-00-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory; Listed on SARA Section 313 (Specific toxic chemical listings) Subject to TSCA Significant New Use Rule (SNUR) at 40 CFR 721.4740, which prohibits the use of alkali metal nitrites such as sodium nitrite in metal working fluids containing amines.	
<b>EPA TSCA Regulatory Flag</b>	S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule.
<b>SARA Section 311/312 Hazard Classes</b>	Reactive hazard; Immediate (acute) health hazard
<b>SARA Section 313 - Emission Reporting</b>	1.0 %
<b>Pentasodium triphosphate (7758-29-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Sodium carbonate (497-19-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Sodium metasilicate (6834-92-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### US State Regulations

<b>Tetrasodium EDTA tetrahydrate (13235-36-4)</b>
U.S. - Texas - Effects Screening Levels - Short Term


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<b>Sodium nitrite (7632-00-0)</b> U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances U.S. - New Jersey - Environmental Hazardous Substances List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List RTK - U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term
<b>Pentasodium triphosphate (7758-29-4)</b> U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List RTK - U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term
<b>Sodium carbonate (497-19-8)</b> U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term
<b>Sodium metasilicate (6834-92-0)</b> U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term

### Canadian Regulations

<b>PDN-50 Detergent (7310)</b>	
WHMIS Classification	Class E - Corrosive Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects
	

<b>Oxirane, methyl-, polymer with oxirane, 1-ethoxyethyl 4-tripropylenephenyl ether 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and ethyl 2-propenoate, bis(1-methyl-1-phenlethyl) peroxide-initiated (160799-28-0)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

<b>Tetrasodium EDTA tetrahydrate (13235-36-4)</b>	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects

<b>Sodium nitrite (7632-00-0)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory. Listed on the Canadian Ingredient Disclosure List	
IDL Concentration 1 %	
WHMIS Classification	Class C - Oxidizing Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects

<b>Pentasodium triphosphate (7758-29-4)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

<b>Sodium carbonate (497-19-8)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	



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Listed on the Canadian Ingredient Disclosure List	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
<b>Sodium metasilicate (6834-92-0)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
Listed on the Canadian Ingredient Disclosure List	
IDL Concentration 1 %	
WHMIS Classification	Class E - Corrosive Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision date** : 06/10/2024

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

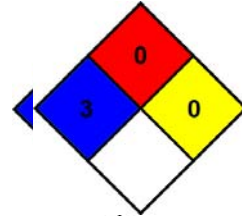
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Met. Corr. 1	Corrosive to metals Category 1
Ox. Sol. 2	Oxidizing solids Category 2
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H232	May form combustible dust concentrations in air
H272	May intensify fire; oxidizer
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

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- NFPA Health Hazard** : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
- NFPA Fire Hazard** : 0 - Materials that will not burn.
- NFPA Reactivity** : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



### HMIS III Rating

- Health** : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
- Flammability** : 0 Minimal Hazard
- Physical** : 0 Minimal Hazard

### Party Responsible for the Preparation of This Document

Better Engineering Mfg., Inc.  
1802 Fashion Court  
Joppa, Maryland 21085 USA  
T: 800-229-3380

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS