



Conforms to Model Work Health And Safety Regulations

## SAFETY DATA SHEET

	vapors/mist. Do not eat, drink or smoke while using this product. Use only outdoors or in a well ventilated area. Wear impervious gloves/protective clothing/eye protection.
<b>ii. RESPONSE</b>	If on skin(or hair): Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: 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 inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Rinse mouth. Do NOT induce vomiting.
<b>iii. STORAGE</b>	Store in a well-ventilated place. Stored locked up. Keep container tightly closed.
<b>iv. DISPOSAL</b>	Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations.

### 2.3 ADDITIONAL INFORMATION

**2.3a HNOC – HAZARDS NOT OTHERWISE CLASSIFIED**

Not Applicable

**2.3b UNKNOWN ACUTE TOXICITY**

<1% of the mixture consists of ingredient(s) of unknown acute toxicity.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 MIXTURES

Chemical Name	CAS Number	Weight %
Sodium metasilicate pentahydrate	6834-92-0	0.1 – 1.0%*
Sodium hydroxide	1310-73-2	0.1 – 1.0%*
Sodium carbonate	497-19-8	0.1 – 1.0%*

\*Means that the component will fall into the range specified due to batch-to-batch variability.

## Section 4: FIRST-AID MEASURES

### 4.1 DESCRIPTION OF THE FIRST-AID MEASURES

ROUTES OF EXPOSURE	DESCRIPTION
<b>Eye Contact:</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
<b>Skin Contact:</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
<b>Inhalation:</b>	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if

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you feel unwell.

**Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

### 4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

ROUTES OF EXPOSURE	DESCRIPTION
<b>Eye Contact:</b>	Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
<b>Skin Contact:</b>	Causes severe skin burns. Handling can cause dry skin, discomfort, irritation, and dermatitis.
<b>Inhalation:</b>	May cause respiratory tract irritation.
<b>Ingestion:</b>	May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

**Note to Physicians:** Symptoms may not appear immediately.

**Specific Treatments:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

## Section 5: FIRE-FIGHTING MEASURES

### 5.1 FLAMMABILITY

**Flammability:** Not Flammable/Not Combustible

### 5.2 EXTINGUISHING MEDIA

**5.2a. Suitable Extinguishing Media:**  
Treat for surrounding material.

**5.2b. Unsuitable Extinguishing Media:**  
Not Available

### 5.3 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

**5.3a. Products of Combustion:**  
May include, and are not limited to: oxides of carbon

#### 5.3b. Explosion Data

**i. Sensitivity to Mechanical Impact:**  
Not Available

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- ii. **Sensitivity to Static Discharge:**  
Not Available

### 5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear(full bunker gear) and respiratory protection (SCBA).

## Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

### 6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

**Methods for Containment:** Recover all usable material. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Cleaning-Up:** Dispose of unwanted material properly in accordance with all local, regional, national and international regulations.

## Section 7: HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

**Handling:** Use in well-ventilated areas. Wear impervious gloves and eye protection. Do not mix with other chemical products, except as indicated by the manufacturers. Do not get in eyes. Do not get on skin or clothing. Do not breathe fumes. Do not take internally. Good housekeeping is important to prevent accumulation of dust.

**General Hygiene Advice:** Use good industrial hygiene practices and wear recommended personal protection. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

**Storage:** Keep out of the reach of children. Keep container tightly closed. Store locked up. Store at room temperature and keep containers closed when not in use. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETER

Exposure Guidelines

Occupational Exposure Limits

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Chemical Name	AUS-STEL	ACGIH-TLV
Sodium metasilicate pentahydrate	Not Available	Not Available
Sodium hydroxide	Not Available	2 mg/m <sup>3</sup>
Sodium carbonate	Not Available	Not Available

### 8.2 EXPOSURE CONTROLS

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

### 8.3 INDIVIDUAL PROTECTION MEASURES

#### 8.3a. Personal Protective Equipment:

- i. **Eye/Face Protection:** Wear approved eye protection [properly fitted dust- or splash-proof chemical safety goggles/face (face shield)]
- ii. **Skin Protection:**
  1. **Hand Protection:** Wear impervious gloves, such as nitrile.
  2. **Body Protection:** Wear suitable protective clothing.
- iii. **Respiratory Protection:** An AS/NZS approved respirator or filtering face piece, such as P2, is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in AS/NZS 1716 or ANSI's standard for respiratory protection (Z88.2).
- iv. **General Health and Safety Measures:** Handle according to established industrial hygiene and safety practices.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance (physical state, color, etc.):</b>	Clear Liquid
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	Not Available
<b>pH:</b>	12.0 – 13.4
<b>Melting point/Freezing point:</b>	Not Available
<b>Initial boiling point and boiling range:</b>	>212°F(>100°C)
<b>Flash point:</b>	>200°F(>93.3°C)
<b>Evaporation rate (Water=1):</b>	Not Available
<b>Flammability:</b>	Not Flammable/Not Combustible
<b>Upper Flammability/Explosive Limit:</b>	Not Available
<b>Lower Flammability/Explosive Limit:</b>	Not Available
<b>Vapor Pressure</b>	Not Available
<b>Vapor Density:</b>	Not Available
<b>Relative Density:</b>	0.96 – 1.07 g/mL
<b>Solubility in Water:</b>	Miscible
<b>Partition coefficient: n-octanol/water:</b>	Not Available

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<b>Auto-ignition temperature:</b>	Not Available
<b>Decomposition Temperature:</b>	Not Available
<b>Viscosity (cps):</b>	Not Available
<b>VOC Content:</b>	<1 g/L

### Section 10: STABILITY AND REACTIVITY

**10.1. REACTIVITY**

No dangerous reaction known under conditions of normal use.

**10.2. CHEMICAL STABILITY**

Stable under normal storage conditions. Keep dry in storage.

**10.3. POSSIBILITY OF HAZARDOUS REACTION**

No dangerous reaction known under conditions of normal use.

**10.4. CONDITIONS TO AVOID**

Heat. Incompatible materials.

**10.5. INCOMPATIBLE MATERIALS**

Strong acids. Strong Oxidizers.

**10.6. HAZARDOUS DECOMPOSITION PRODUCTS**

Upon decomposition, this product may yield oxides of carbon.

### Section 11: TOXICOLOGICAL INFORMATION

**11.1. LIKELY ROUTES OF EXPOSURE:**

Skin contact, eye contact, inhalation, and ingestion.

**11.2. SYMPTOMS RELATED TO PHYSICAL/CHEMICAL/TOXICOLOGICAL CHARACTERISTICS:**

**Eye Contact:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin Contact:** Causes severe skin burns. Handling can cause dry skin, discomfort, irritation, and dermatitis.

**Inhalation:** May cause respiratory tract irritation.

**Ingestion:** May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

Acute Toxicity		
Chemical Name	LC50	LD50
Sodium metasilicate pentahydrate	Not Available	Not Available
Sodium hydroxide	Not Available	Dermal: 1,350 mg/kg, rabbit
Sodium carbonate	Not Available	Oral: 4,090 mg/kg, rat

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Carcinogenicity	
Chemical Name	Chemical Listed as Carcinogens or Potential Carcinogen (NTP,IARC,OSHA,ACGIH,CP65)
Sodium metasilicate pentahydrate	Not Listed
Sodium hydroxide	Not Listed
Sodium carbonate	Not Listed

### 11.3. DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT AND LONG-TERM EXPOSURE

SHORT-TERM	
<b>Skin Corrosion/Irritation:</b>	Causes severe skin burns
<b>Serious Eye Damage/Irritation:</b>	Causes serious eye damage
<b>Respiratory Sensitization:</b>	Not Classified
<b>Skin Sensitization:</b>	Not Classified
<b>STOT-Single Exposure:</b>	May cause respiratory irritation
<b>Aspiration Hazard:</b>	Not Classified
LONG-TERM	
<b>Carcinogenicity:</b>	Not Classified
<b>Germ Cell Mutagenicity:</b>	Not Classified
<b>Reproductive Toxicity:</b>	Not Classified
<b>STOT-Repeated Exposure:</b>	Not Classified
<b>Synergistic/Antagonistic Effects:</b>	Not Classified

## Section 12: ECOLOGICAL INFORMATION

### 12.1. ECOTOXICITY

May cause long-term adverse effects to the aquatic environment. Keep from entry into sewers and waterways.

Ecotoxicity		
Chemical Name	EC50/NOEC-48 Hours	LC50/NOEC-96 Hours
Sodium metasilicate pentahydrate	Not Available	Not Available
Sodium hydroxide	Not Available	45.4 mg/L, <i>Oncorhynchus mykiss</i>
Sodium carbonate	Not Available	Not Available

### 12.2. PERSISTENCE AND DEGRADABILITY

Not Available

### 12.3. BIOACCUMULATIVE POTENTIAL

Not Available

### 12.4. MOBILITY IN SOIL

Not Available

### 12.5. OTHER ADVERSE EFFECTS

Not Available

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. DISPOSAL METHOD

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Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations

### 13.2. OTHER DISPOSAL CONSIDERATIONS

Not Available

### Section 14: TRANSPORT INFORMATION

ADG	IATA
<b>UN NUMBER:</b>	<b>UN NUMBER:</b>
UN3266	UN3266
<b>UN PROPER SHIPPING NAME:</b>	<b>UN PROPER SHIPPING NAME:</b>
Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide, sodium metasilicate)	Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide, sodium metasilicate)
<b>TRANSPORT HAZARD CLASS (ES):</b>	<b>TRANSPORT HAZARD CLASS (ES):</b>
8	8
<b>PACKING GROUP (if applicable):</b>	<b>PACKING GROUP (if applicable):</b>
II	II
<b>Limited Quantity Exception &lt;= 1L</b>	<b>Limited Quantity Exception &lt;= 1L</b>

**SUMMARY:** Product is regulated under ADG and other transportation regulations.

### 14.1. ENVIRONMENTAL HAZARDS

Not Available

### 14.2. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not Available

### 14.3. SPECIAL PRECAUTIONS FOR USER

Do not handle until all safety precautions have been read and understood.

### 14.4. HAZCHEM OR EMERGENCY ACTION CODE

2X

### Section 15: REGULATORY INFORMATION

#### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE CHEMICAL

**Australia:** This product has been classified in accordance with the hazard criteria of the Model Work Health and Safety Regulations and the SDS contains all the information required by the Model Work Health and Safety Regulations.

#### 15.2. SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65	California Proposition 65
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<b>OSHA (O)</b>	Occupational Safety and Health Administration
<b>ACGIH (G)</b>	American Conference of Governmental Industrial Hygienists <ul style="list-style-type: none"> <li>• A1 – Confirmed human carcinogen</li> <li>• A2 – Suspected human carcinogen</li> <li>• A3 – Animal carcinogen</li> <li>• A4 – Not classifiable as a human carcinogen</li> <li>• A5 – Not suspected a human carcinogen</li> </ul>
<b>IARC (I)</b>	International Agency for Research on Cancer <ul style="list-style-type: none"> <li>• 1 – The agent (mixture) is carcinogenic to humans</li> <li>• 2A – The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.</li> <li>• 2B – The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.</li> <li>• 3 – The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.</li> <li>• 4 – The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.</li> </ul>
<b>NTP (N)</b>	National Toxicology Program <ul style="list-style-type: none"> <li>• 1 – Known to be carcinogens</li> <li>• 2 – Reasonably anticipated to be carcinogens</li> </ul>

### Section 16: OTHER INFORMATION

**Date of Preparation:** February 28, 2017

**Version:** 1.0

**Revision Date:** Not Applicable

**Disclaimer:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

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## End of Safety Data Sheet