

# Safety Data Sheet

according to WHMIS 2015

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## Laundry Booster 8

### SECTION 1: Identification

**Product name:** Laundry Booster 8

**Other means of identification:** Sodium metasilicate pentahydrate powder, disodium metasilicate pentahydrate, disodium trioxosilicate pentahydrate,  $\text{Na}_2\text{SiO}_3 \cdot 5\text{H}_2\text{O}$

**Recommended use and restrictions on use:** detergent builder, pH regulator, and complexing agent for industrial and institutional application.



**Supplier Details:**

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**Emergency telephone number:** Call CANUTEC's 24-hr Number 613-996-6666

### SECTION 2: Hazard Identification

**Classification of the substance or mixture:**

 <p><b>Corrosion</b></p>	<ul style="list-style-type: none"><li>• Corrosive to metals (Category 1)</li><li>• Skin corrosion/irritation - Skin corrosion (Category 1B)</li><li>• Serious eye damage/eye irritation - Serious eye damage (Category 1)</li></ul>
 <p><b>Exclamation Mark</b></p>	<ul style="list-style-type: none"><li>• Specific target organ toxicity – Single exposure (Category 3)</li></ul>

**Signal word:** Danger

**Hazard statements:**

May be corrosive to metals.  
Causes severe skin burns and eye damage  
May cause respiratory irritation

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### Precautionary statements:

Avoid breathing dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

**Other hazards which do not result in classification:** No information available.

### SECTION 3: Composition/Information on Ingredients

Chemical Name	CAS No.	Concentration (% wt/wt)
Sodium metasilicate pentahydrate	10213-79-3	100

### SECTION 4: First Aid Measures

#### Description of first aid measures:

**After inhalation:** Remove patient from exposure, keep warm and at rest. Obtain immediate medical attention.

**After skin contact:** Wash affected skin with plenty of water. Continue to wash the affected area for at least 15 minutes. Obtain medical attention.

**After eye contact:** Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

**After swallowing:** Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain immediate medical attention.

#### Most important symptoms and effects, both acute and delayed:

Alkaline. Causes burns.

Irritating to respiratory system.

May cause permanent damage to eyes.

**Indication of any immediate medical attention and special treatment needed:** Obtain immediate medical attention.

### SECTION 5: Firefighting Measures

#### Extinguishing media

**Suitable extinguishing agents:** Compatible with all standard firefighting techniques.

**For safety reasons, unsuitable extinguishing agents:** Not available

**Special hazards arising from the substance or mixture** Not applicable. Inorganic powder or granules. Non-combustible.

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### Advice for firefighters:

**Protective equipment:** Firefighters must wear fire resistant protective equipment. Wear self-contained breathing apparatus and protective gloves.

**Additional information (precautions):** No information available.

## SECTION 6: Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Wear suitable protective clothing. Wear eye/face protection. An approved dust mask should be worn if dust is generated during handling. Do not allow to enter drains, sewers or watercourses. Advise authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

**Methods and material for containment and cleaning up:** Caution - spillages may be slippery. Avoid generation of dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.

## SECTION 7: Handling and Storage

**Precautions for safe handling:** Avoid contact with eyes, skin and clothing. Avoid generation of dust. Emergency shower and eye wash facilities should be readily available.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed and dry. In case of high humidity or storage for extended periods of time, use plastic bags to enclose product containers to avoid caking. Unsuitable containers: Aluminum

## SECTION 8: Exposure Controls/Personal Protection

**Control Parameters:** No Occupational Exposure Limit assigned. An exposure limit of 2 mg/m<sup>3</sup> (15 min TWA) is recommended by analogy with sodium hydroxide.

**Appropriate Engineering controls:** Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

**Respiratory protection:** Avoid inhalation of dusts. Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.

**Protection of skin:** Wear suitable protective clothing and gloves. PVC or rubber gloves. Wear suitable overalls.

**Eye protection:** Chemical goggles.

**General hygienic measures:** Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.

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### SECTION 9: Physical and Chemical Properties

<b>Appearance:</b>	Granules solid	<b>Vapor pressure:</b>	Not applicable
<b>Odor:</b>	Odourless	<b>Vapor density:</b>	Not applicable
<b>Odor threshold:</b>	Not determined	<b>Relative density/Specific gravity:</b>	Not available
<b>pH - value:</b>	12.4 (1% solution)	<b>Solubility:</b>	61% at 30 °C
<b>Melting/Freezing point:</b>	72 °C	<b>Partition coefficient (n-octanol / water):</b>	No information available
<b>Boiling point/Boiling range:</b>	Not applicable	<b>Auto/Self-ignition temperature:</b>	Not applicable
<b>Flash point:</b>	Not applicable	<b>Decomposition temperature:</b>	Not applicable
<b>Evaporation rate:</b>	Not applicable	<b>Viscosity:</b>	Not applicable
<b>Flammability:</b>	Not applicable	<b>Molecular formula:</b>	Na <sub>2</sub> SiO <sub>3</sub> •5H <sub>2</sub> O
<b>Flammable limit lower:</b>	Not applicable	<b>Molecular weight:</b>	212.14 g/mol
<b>Flammable limit upper:</b>	Not applicable		
<b>Bulk Density:</b> Not available			

### SECTION 10: Stability and Reactivity

**Chemical stability:** This product is hygroscopic.

**Possible hazardous reactions:** When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis. Aqueous solutions will react with aluminum, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide.

**Conditions to avoid:** Moisture.

**Incompatible materials:** Aluminum, fluorine, zinc, acids.

**Hazardous decomposition products:** Hydrogen.

### SECTION 11: Toxicological Information

**Acute Toxicity:**

	<b>Oral, LD<sub>50</sub> (rat)</b>	<b>Dermal, LD<sub>50</sub> (rat)</b>	<b>Inhalation, LC<sub>50</sub> (rat)</b>
Sodium metasilicate pentahydrate	1152-1349 mg/kg bw	> 5000 mg/kg bw	> 2.06 g/m <sup>3</sup>

**Skin corrosion/irritation:** Corrosive to skin.

**Eye corrosion/irritation:** Corrosive to eyes.

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**Skin sensitization:** Not sensitizing (LLNA).

**Carcinogenicity:** Not considered to be carcinogenic by IARC, NTP or OSHA.

**Reproductive toxicity:** No evidence of reproductive toxicity or developmental toxicity.

**Mutagenicity:** No evidence of genotoxicity. In vitro/in vivo negative.

**STOT - single exposure:** Irritating to respiratory system.

**STOT - repeated exposure:** Not classified.

**Aspiration hazard:** Not classified

### SECTION 12: Ecological Information

**Fish Toxicity:**

Brachydanio rerio LC<sub>50</sub> (96 hour) 210 mg/l

Daphnia magna EC<sub>50</sub> (48 hour) 1700 mg/l

**Biodegradability:** Inorganic. Soluble silicates, upon dilution, rapidly depolymerize into molecular species indistinguishable from natural dissolved silica.

**Environmental Effects:** Inorganic. The substance has no potential for bioaccumulation. Not classified as PBT or vPvB.

### SECTION 13: Disposal Considerations

**Waste disposal recommendations:** Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

### SECTION 14: Transport Information

**UN Number:** 3253

**UN proper shipping name:** DISODIUM TRIOXOSILICATE

**Transport hazard class(es):** 8

**Packing group:** III

**Special precautions:** Unsuitable containers: Aluminum

### SECTION 15: Regulatory Information

No information available.

### SECTION 16: Other Information

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forth herein or the product to which the information refers. Accordingly, YXELABS Incorporated will not be responsible for damages resulting from use or reliance upon this information.

### **Abbreviations and acronyms:**

CAS: Chemical Abstracts Service

IARC: International Agency for Research on Cancer

LLNA: Local Lymph Node Assay

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

TWA: Time Weighted Average

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