



370 N. Wabasha Street  
St. Paul, MN 55102

09/10/2016

Supplier's Information	GREENEVILLE CITY SCHL
Products	013110291
SOLID METAL PRO 4-8LB - 10751	

Dear Customer:

Enclosed are new and revised Safety Data Sheets (SDS) for the above listed products which you ordered recently from Ecolab Inc.

Our safety documents are updated as often as new data is available. Please replace the old versions with the most recent SDSs enclosed.

If you distribute an Ecolab Inc. product to another place, you may be required to provide a copy of the SDS to that location.

**SAFETY REMINDER**

- Use products ONLY for recommended uses.
- NEVER transfer product to unlabeled containers.
- NEVER take product home – workplace use only.

If you are not directly responsible for the use of the SDSs or the information they contain, we ask that you forward them to the appropriate person(s) in your organization. If you require further information regarding these SDSs, please call:

Customer Service: 1-800-352-5326

Electronic versions of Ecolab SDSs are available at [www.ecolab.com](http://www.ecolab.com).

Ecolab Inc.

201609100350-1800

013110291

GREENEVILLE CITY SCHL  
CNTRL WH/FLORAL ST  
GEO CLEM SCHOOL  
GREENEVILLE TN 37743



**SAFETY DATA SHEET**  
**SOLID METAL PRO**

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : **SOLID METAL PRO**  
 Other means of identification : Not applicable  
 Recommended use : Machine Warewashing Detergent  
 Restrictions on use : Reserved for Industrial and professional use.  
 Product dilution information : 0.1 % - 0.29 %  
 Company : Ecolab Inc.  
 370 N. Wabasha Street  
 St. Paul, Minnesota USA 55102  
 1-800-352-5326  
 Emergency health information : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)  
 Issuing date : 11/12/2015

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**  
**Product AS SOLD**  
 Acute toxicity (Oral) : Category 4  
 Skin corrosion : Category 1A  
 Serious eye damage : Category 1

**Product AT USE DILUTION**  
 Not a hazardous substance or mixture.

**GHS Label element**

**Product AS SOLD**  
 Hazard pictograms



Signal Word : **Danger**

Hazard Statements : Harmful if swallowed.  
 Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**  
 Do not breathe dusts or mists. Wash skin thoroughly after handling.  
 Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN

**SAFETY DATA SHEET**  
**SOLID METAL PRO**

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

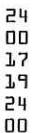
**Product AS SOLD**  
 Other hazards : None known.  
**Product AS SOLD**  
 Pure substance/mixture : Mixture  
**Chemical Name**  
 sodium metasilicate  
 Sodium Carbonate(soda)  
**Product AT USE DILUTION**  
 No hazardous ingredients  
**SECTION 4. FIRST AID MEASURES**  
**Product AS SOLD**  
 In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.  
 In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.  
 If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.  
 If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.  
 Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.  
 Notes to physician : Treat symptomatically.  
 Most important symptoms and effects, both acute and : See Section 11 for more detailed information on health effects and symptoms.

**SECTION 4. FIRST AID MEASURES**

**Product AS SOLD**  
 Pure substance/mixture : Mixture  
**Chemical Name**  
 sodium metasilicate  
 Sodium Carbonate(soda)  
**Product AT USE DILUTION**  
 No hazardous ingredients

**SECTION 4. FIRST AID MEASURES**

**Product AS SOLD**  
 In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.  
 In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.  
 If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.  
 If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.  
 Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.  
 Notes to physician : Treat symptomatically.  
 Most important symptoms and effects, both acute and : See Section 11 for more detailed information on health effects and symptoms.



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### SOLID METAL PRO

delayed

#### Product AT USE DILUTION

In case of eye contact:

: Rinse with plenty of water.

In case of skin contact:

: Rinse with plenty of water.

If swallowed

: Rinse mouth. Get medical attention if symptoms occur.

If inhaled

: Get medical attention if symptoms occur.

#### SECTION 5. FIRE-FIGHTING MEASURES

##### Product AS SOLD

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Not flammable or combustible.

Hazardous combustion products

: Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus

Special protective equipment for fire-fighters : Use personal protective equipment.

Specific extinguishing methods

: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

##### Product AS SOLD

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: Do not allow contact with soil, surface or ground water.  
: Sweep up and shovel into suitable containers for disposal.

Methods and materials for containment and cleaning up

#### Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures

: Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: No special environmental precautions required.

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### SOLID METAL PRO

Methods and materials for containment and cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

#### SECTION 7. HANDLING AND STORAGE

##### Product AS SOLD

Advice on safe handling

: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage

: Keep out of reach of children. Store in suitable labeled containers.

Storage temperature

: 0 °C to 40 °C

#### Product AT USE DILUTION

Advice on safe handling

: Wash hands after handling. For personal protection see section 8. Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

#### SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

##### Product AS SOLD

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures

: Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Eye protection

: Wear eye protection/ face protection.

Hand protection

: Wear the following personal protective equipment:  
Standard glove type.  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection

: Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection

: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures

: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

#### Product AT USE DILUTION

Engineering measures

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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## SOLID METAL PRO

### Personal protective equipment

- Eye protection : No special protective equipment required.
- Hand protection : No special protective equipment required.
- Skin protection : No special protective equipment required.
- Respiratory protection : No personal respiratory protective equipment normally required.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: solid	liquid
Color	: off-white	colorless
Odor	: not significant	odorless
pH	: 11.5 - 12.5, 1 %	10.5 - 11.4
Flash point	: Not applicable	
Odor Threshold	: No data available	
Melting point/freezing point	: No data available	
Initial boiling point and boiling range	: No data available	
Evaporation rate	: No data available	
Flammability (solid, gas)	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapor pressure	: No data available	
Relative vapor density	: No data available	
Relative density	: No data available	
Water solubility	: soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n-octanol/water	: No data available	
Autoignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: The substance or mixture is not classified as oxidizing.	
Molecular weight	: No data available	
VOC	: No data available	

### SECTION 10. STABILITY AND REACTIVITY

- Product AS SOLD : Stable under normal conditions.
- Chemical stability

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## SOLID METAL PRO

- Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
- Conditions to avoid : None known.
- Incompatible materials : Acids
- Hazardous decomposition products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Eye contact, Skin contact

#### Potential Health Effects

Product AS SOLD : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Harmful if swallowed. Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

#### Product AT USE DILUTION

Eyes : Health injuries are not known or expected under normal use.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

#### Experience with human exposure

Product AS SOLD : Redness, Pain, Corrosion

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

#### Product AT USE DILUTION

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

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Inhalation : No symptoms known or expected.  
Toxicity

**Product AS SOLD**  
Acute oral toxicity : Acute toxicity estimate 1,194 mg/kg  
Acute inhalation toxicity : No data available  
Acute dermal toxicity : No data available  
Skin corrosion/irritation : No data available  
Serious eye damage/eye irritation : No data available  
Respiratory or skin sensitization : No data available  
Carcinogenicity : No data available  
Reproductive effects : No data available  
Germ cell mutagenicity : No data available  
Teratogenicity : No data available  
STOT-single exposure : No data available  
STOT-repeated exposure : No data available  
Aspiration toxicity : No data available

**SECTION 12. ECOLOGICAL INFORMATION**

**Product AS SOLD Ecotoxicity**  
Environmental Effects : This product has no known ecotoxicological effects.

**Product**  
Toxicity to fish : No data available  
Toxicity to daphnia and other aquatic invertebrates : No data available  
Toxicity to algae : No data available

**Ingredients**  
Toxicity to fish : sodium metasilicate  
96 h LC50 Fish: 210 mg/l  
Sodium Carbonate(soda)  
96 h LC50 Lepomis macrochirus (Bluegill sunfish): 300 mg/l

**Ingredients**  
Toxicity to daphnia and other aquatic invertebrates : Sodium Carbonate(soda)  
48 h EC50 Ceriodaphnia (water flea): 213.5 mg/l

**Persistence and degradability**  
No data available  
**Bioaccumulative potential**

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No data available  
Mobility in soil  
No data available  
Other adverse effects  
No data available

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Product AS SOLD**  
Disposal methods

: Where possible recycling is preferred to deep sea or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.  
Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

**Product AT USE DILUTION**  
Disposal methods

: Diluted product can be flushed to sanitary sewer.  
Disposal considerations : Dispose of in accordance with local, state, and federal regulations.

**SECTION 14. TRANSPORT INFORMATION**

**Product AS SOLD**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

**Land transport (DOT)**  
UN number : 3253  
Description of the goods : Disodium trioxosilicate  
Class : 8  
Packing group : III  
Environmentally hazardous : no

**Sea transport (IMDG/IMO)**  
UN number : 3253  
Description of the goods : DISODIUM TRIOXOSILICATE MIXTURE  
Class : 8  
Packing group : III  
Marine pollutant : no

**Product AT USE DILUTION**  
Not intended for transport.

**SECTION 15. REGULATORY INFORMATION**

**Product AS SOLD**

EPCRA - Emergency Planning and Community Right-to-Know  
CERCLA Reportable Quantity  
This material does not contain any components with a CERCLA RQ.

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**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**The ingredients of this product are reported in the following inventories:**

**United States TSCA Inventory :**  
On TSCA Inventory

**Canadian Domestic Substances List (DSL) :**  
All components of this product are on the Canadian DSL

**Australia Inventory of Chemical Substances (AICS) :**  
On the Inventory, or in compliance with the inventory

**New Zealand Inventory of Chemical Substances :**  
On the Inventory, or in compliance with the inventory

**Japan. ENCS - Existing and New Chemical Substances Inventory :**  
not determined

**Japan. ISHL - Inventory of Chemical Substances (NIETI) :**  
not determined

**Korea. Korean Existing Chemicals Inventory (KECI) :**  
On the Inventory, or in compliance with the inventory

**Philippines Inventory of Chemicals and Chemical Substances (PICCS) :**  
not determined

**China. Inventory of Existing Chemical Substances In China (IECSC) :**  
On the Inventory, or in compliance with the inventory

**SECTION 16. OTHER INFORMATION**

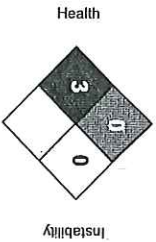
**Product AS SOLD**

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**NFPA:**

Flammability



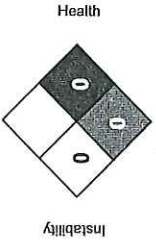
**HMS III:**

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

**Product AT USE DILUTION**  
**NFPA:**

Flammability



**HMS III:**

<b>HEALTH</b>	<b>0</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 11/12/2015  
Version : 1.0  
Prepared by : Regulatory Affairs

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.