

# Material Safety Data Sheet



SOLID METAL PRO

## Section 1. Chemical product and company identification

Trade name : SOLID METAL PRO  
Product use : Machine Warewashing Detergent  
Supplier : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326  
Code : 990838  
Date of issue : 21-July-2005

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

## Section 2. Composition, Information on Ingredients

Name	CAS number	% by weight
sodium hydroxide	1310-73-2	3
disodium metasilicate	6834-92-0	>50
triphosphoric acid, pentasodium salt, hexahydrate	15091-98-2	20 - 50

## Section 3. Hazards identification

Physical state : Solid. (Cast Solid)  
Emergency overview : WARNING!

CAUSES SEVERE EYE AND SKIN IRRITATION. Untreated contact may cause severe irritation or chemical burns.

HARMFUL IF SWALLOWED.

Do not ingest. Do not get in eyes, on skin or clothing. Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

### Potential acute health effects

Eyes : Severely irritating to the eyes. Untreated contact may cause chemical burns.  
Skin : Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.  
Inhalation : No known significant effects or critical hazards.  
Ingestion : Harmful if swallowed. Causes burns to mouth, throat and stomach.  
See toxicological Information (section 11)

## Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.  
Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.  
Inhalation : If inhaled, remove to fresh air.  
Ingestion : Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

## Section 5. Fire fighting measures

- Flash point** : > 100°C  
Product does not support combustion.
- Fire fighting media and instructions** : Use an extinguishing agent suitable for surrounding fires.  
Dike area of fire to prevent product run-off.  
No specific hazard.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

## Section 6. Accidental release measures

- Personal precautions** : Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable vacuum or carefully scoop up spilled materials and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal.

## Section 7. Handling and storage

- Handling** : Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling.
- Storage** : Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.  
Do not store above 40°C

## Section 8. Exposure Controls, Personal Protection

- Engineering controls** : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Personal protection

- Eyes** : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Hands** : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Skin** : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Respiratory** : No protective equipment is needed under normal use conditions.

### Name

sodium hydroxide

### Exposure limits

**OSHA PEL (United States, 8/1997).**TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: All forms**ACGIH TLV (United States, 1/2004).**CEIL: 2 mg/m<sup>3</sup>

## Section 9. Physical and chemical properties

- Physical state** : Solid. (Cast Solid)
- Color** : White.
- Odor** : Odorless.
- pH** : 12.1 (1%)
- Dispersion properties** : Easily dispersed in cold water, hot water.
- Solubility** : Easily soluble in cold water, hot water.

## Section 10. Stability and reactivity

- Stability** : The product is stable.
- Reactivity** : Highly reactive with acids.  
Slightly reactive to reactive with organic materials, moisture.

## Section 11. Toxicological information

### Potential acute health effects

- Eyes** : Severely irritating to the eyes. Untreated contact may cause chemical burns.
- Skin** : Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : Harmful if swallowed. Causes burns to mouth, throat and stomach.
- Chronic effects on humans** : Contains material which causes damage to the following organs: lungs, upper respiratory tract, skin, eye, lens or cornea.

## Section 12. Ecological information

- Products of degradation** : These products are phosphates. Some metallic oxides.

## Section 13. Disposal considerations

- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

## Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	UN3262	Corrosive solid, basic, inorganic, n.o.s., (Sodium metasilicate)	8	III	<p><b>Limited quantity</b> Yes.</p> <p><b>Special provisions</b> IB8, IP3</p>

### APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

## Section 15. Regulatory information

- HCS Classification** : Corrosive material  
Target organ effects
- U.S. Federal regulations** : SARA 302/304/311/312 extremely hazardous substances: None.  
SARA 302/304 emergency planning and notification: None.
- TSCA 8(b) inventory** : All materials are listed or exempt.
- California prop. 65** : No products were found.

## Section 16. Other information

Hazardous Material Information System (U.S.A.) :

Health	*	2
Fire hazard		0
Reactivity		0
Personal protection	--	

Date of issue : 21-July-2005.  
Responsible name : Regulatory Affairs  
Date of previous issue : No Previous Validation.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.