Material Safety Data Sheet



SOLID METAL PRO

Section 1. Chemical product and company identification

SOLID METAL PRO Trade name

Product use Machine Warewashing Detergent

: Ecolab Co. Supplier

> 5105 Tomken Road Mississauga ON L4W 2X5

1-800-352-5326

Code : 990838

: 09-August-2005 Date of issue

> **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

<u>Name</u>	CAS number% by weight	
disodium metasilicate	6834-92-0	40 - 70
triphosphoric acid, pentasodium salt, hexahydrate	15091-98-2	30 - 60
sodium hydroxide	1310-73-2	1 - 5

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.

Routes of entry Skin contact, Eye contact, Ingestion

Potential acute health effects

Eves : Severely irritating to 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. Obtain medical attention

immediately.

Skin Contact : In case of contact, immediately flush skin copiously with water for at least 15 minutes while

removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes

thoroughly before reuse. Obtain medical attention immediately.

Inhalation : If inhaled, remove to fresh air.

: Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give Ingestion

anything by mouth to an unconscious person. Obtain medical attention immediately.

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Section 5. Fire fighting measures

Auto-ignition temperature

Flash point

: Not available. > 100°C

Product does not support combustion.

Flammable limits

Upper: Not available. Lower: Not available. **Products of combustion** : Not available.

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 face-piece operated in positive pressure

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

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 **Methods for**

cleaning up

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and

: 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

Section 7. Handling and storage

wind dispersal.

use conditions.

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, wellventilated 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

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

Exposure limits

sodium hydroxide

ACGIH TLV (United States, 1/2004).

CEIL: 2 mg/m³

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Section 9. Physical and chemical properties

Physical state : Solid. (Cast Solid)

Colour White. Odour Odourless. : 12.1 (1%) Ha Boiling/condensation point : Not available. Melting/freezing point : Not available. Vapour pressure : Not applicable. Vapour density : Not available. Odour threshold : Not available. : Not applicable. **Evaporation rate** Log Kow : Not available.

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.

Conditions of instability: Not available.

Reactivity: Highly reactive with acids.

Slightly reactive to reactive with organic materials, moisture.

Incompatibility with various: Not available.

substances

Hazardous Decomposition: Not available.

Products

Section 11. Toxicological information

Potential acute health effects

Eyes : Severely irritating to 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.

Irritancy of Product : Hazardous by WHMIS criteria.

Potential chronic health effects

Carcinogenic effects
 Mutagenic effects
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 Reproductive effects
 No known significant effects or critical hazards.
 Sensitization to Product
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Synergistic Products: Not available.

(Toxicologically)

Toxicity data

Ingredient name	<u>Test</u>	Result	Route	Species
disodium metasilicate	LD50	1153 mg/kg	Oral	Rat
	LD50	770 mg/kg	Oral	Mouse
	LDLo	250 mg/kg	Oral	Dog
	LDLo	250 mg/kg	Oral	pig
sodium hydroxide	LDLo	500 mg/kg	Oral	Rabbit

Target organs : Contains material which causes damage to the following organs: lungs, upper

respiratory tract, skin, eye, lens or cornea.

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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 minimised 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
TDG Classification	UN3262	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate)	8	III	Passenger Carrying Road or Rail Index 25 Special provisions 16

APPLIES ONLY DURING ROAD TRANSPORT

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

Section 15. Regulatory information

WHMIS : Class E: Corrosive material.

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

Section 16. Other information

Date of issue : 09-August-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.