

# Material Safety Data Sheet



INSTITUTIONAL FINISH

## Section 1. Chemical product and company identification

**Trade name** : INSTITUTIONAL FINISH  
**Product use** : Machine Warewashing Detergent  
**Supplier** : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326  
**Code** : 908434  
**Date of issue** : 15-June-2006

**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>	<u>CAS number</u>	<u>% by weight</u>
triphosphoric acid, pentasodium salt	7758-29-4	28
sodium carbonate	497-19-8	20 - 50
silicic acid, sodium salt	1344-09-8	5 - 20
troclosene sodium, dihydrate	51580-86-0	1 - 5

## Section 3. Hazards identification

**Physical state** : Solid. (Powder.)  
**Emergency overview** : WARNING!

CAUSES SEVERE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
HARMFUL IF SWALLOWED.  
Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed.  
Use only with adequate ventilation. Wash thoroughly after handling.

### Potential acute health effects

**Eyes** : Severely irritating to eyes.  
**Skin** : Severely irritating to the skin.  
**Inhalation** : Severely irritating to the respiratory system.  
**Ingestion** : Harmful if swallowed.  
**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** : Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**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
- Products of combustion** : These products are halogenated compounds, hydrogen chloride.
- Fire hazards in the presence of various substances** : Non-flammable.
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.  
Dike liquid for later disposal.  
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 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. Do not allow to enter drains or watercourses.
- 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 material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

## Section 7. Handling and storage

- Handling** : Avoid contact with eyes, skin and 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 50°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, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

- Eyes** : Use safety eyewear designed to protect against splash of liquids.
- Hands** : Use chemical-resistant, impervious gloves.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.

**Name**  
chlorine

### Exposure limits

**ACGIH TLV (United States, 1/2005).**

STEL: 2.9 mg/m<sup>3</sup> 15 minute/minutes. Form: All forms

STEL: 1 ppm 15 minute/minutes. Form: All forms

TWA: 1.5 mg/m<sup>3</sup> 8 hour(s). Form: All forms

TWA: 0.5 ppm 8 hour(s). Form: All forms

**OSHA PEL (United States, 8/1997).**

CEIL: 3 mg/m<sup>3</sup> Form: All forms

CEIL: 1 ppm Form: All forms

## Section 9. Physical and chemical properties

Physical state : Solid. (Powder.)  
 Color : White. (Light.)  
 Odor : Odorless.  
 pH : 10.7 (1%)  
 Solubility : Partially soluble in cold water, hot water.

## Section 10. Stability and reactivity

Stability : The product is stable.  
 Reactivity : Reactive with metals, alkalis.  
 Mixing this product with acid or ammonia releases chlorine gas.  
 Hazardous decomposition products : These products are halogenated compounds, hydrogen chloride, chlorine.  
 Hazardous polymerization : Will not occur.

## Section 11. Toxicological information

### Potential acute health effects

Eyes : Severely irritating to eyes.  
 Skin : Severely irritating to the skin.  
 Inhalation : Severely irritating to the respiratory system.  
 Ingestion : Harmful if swallowed.

### Potential chronic health effects

## Section 12. Ecological information

Products of degradation : These products are carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides (NO, NO<sub>2</sub> etc.), sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub> etc.), halogenated compounds, 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	Not regulated.	-	-	-	-

### APPLIES ONLY DURING ROAD TRANSPORT

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

## Section 15. Regulatory information

HCS Classification : Irritating material  
 U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: No products were found.  
 SARA 302/304 emergency planning and notification: No products were found.  
 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	1
	Personal protection	B

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 Responsible name : Regulatory Affairs  
 Date of previous issue : 14-February-2006.

**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.