

# Material Safety Data Sheet



CHEM-STAR IO-SOFT 500

## Section 1. Chemical product and company identification

Trade name : CHEM-STAR IO-SOFT 500  
Product use : Teat dip  
Supplier : Ecolab Inc. Food & Beverage Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-392-3392  
Code : 922367-02  
Date of issue : 01-February-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>
poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9	5 - 20
poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, compd. with iodine	11096-42-7	1 - 5

## Section 3. Hazards identification

Physical state : Liquid. (Liquid.)  
Emergency overview : CAUTION!

MAY CAUSE EYE IRRITATION.  
Avoid contact with eyes. Wash thoroughly after handling.

### Potential acute health effects

Eyes : Moderately irritating to eyes.  
Skin : No known significant effects or critical hazards.  
Inhalation : Slightly irritating to the respiratory system.  
Ingestion : No known significant effects or critical hazards.

See toxicological information (section 11)

## Section 4. First aid measures

Eye contact : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.  
Skin contact : Flush contaminated skin with plenty of water. Wash clothing before reuse.  
Inhalation : If inhaled, remove to fresh air.  
Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.

## Section 5. Fire fighting measures

Flash point : > 100°C  
Product does not support combustion.  
Products of combustion : These products are halogenated compounds.  
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, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

## Section 7. Handling and storage

- Handling** : Avoid contact with eyes. Wash thoroughly after handling.
- Storage** : Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.  
Store between -30 and 50°C

## Section 8. Exposure controls, personal protection

- Engineering controls** : Good general ventilation should be sufficient to control airborne levels.
- Personal protection**
- Eyes** : Eye protection recommended.
- Hands** : No protective equipment is needed under normal use conditions.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : A respirator is not needed under normal and intended conditions of product use.

Consult local authorities for acceptable exposure limits.

## Section 9. Physical and chemical properties

- Physical state** : Liquid. (Liquid.)
- Color** : Brownish-red.
- Odor** : iodine
- pH** : 4.5 (100%)
- Boiling/condensation point** : >100 °C
- Specific gravity** : 1.024 (Water = 1)
- Dispersibility 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** : Slightly reactive to reactive with alkalis.
- Hazardous decomposition products** : These products are halogenated compounds.

## Section 11. Toxicological information

### Potential acute health effects

- Eyes** : Moderately irritating to eyes.
- Skin** : No known significant effects or critical hazards.
- Inhalation** : Slightly irritating to the respiratory system.
- Ingestion** : No known significant effects or critical hazards.

### Potential chronic health effects

## Section 12. Ecological information

**Products of degradation** : These products are carbon oxides (CO, CO<sub>2</sub>) and water, halogenated compounds.

## 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

<b>Hazardous Material Information System (U.S.A.)</b> :	<b>Health</b>	1
	<b>Fire hazard</b>	0
	<b>Reactivity</b>	0
	<b>Personal protection</b>	A

**Date of issue** : 01-February-2006.  
**Responsible name** : Regulatory Affairs  
**Date of previous issue** : 07-December-2005.

### 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.