

# Material Safety Data Sheet



IO-SHIELD

## Section 1. Chemical product and company identification

Trade name : IO-SHIELD  
Product use : Teat dip  
Supplier : Ecolab Inc. Food & Beverage Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-392-3392  
Code : 905745  
Date of issue : 20-October-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

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, compd. with iodine	11096-42-7	1 - 5
glycerin	56-81-5	1 - 5
polyvinyl alcohol	9002-89-5	1 - 5

## Section 3. Hazards identification

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

MAY CAUSE EYE AND SKIN IRRITATION.  
Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

### Potential acute health effects

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

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 if irritation persists.  
Skin contact : Wash with soap and water. Get medical attention if irritation occurs. Wash clothing before reuse.  
Inhalation : If inhaled, remove to fresh air.  
Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. 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 area of fire to prevent runoff.  
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, 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, skin and clothing. 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 5 and 45°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** : For prolonged or repeated handling, use Impervious gloves.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : No protective equipment is needed under normal use conditions.

### Name

glycerin

### Exposure limits

**ACGIH TLV (United States, 1/2004).**

TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Mist

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

TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fraction

TWA: 15 mg/m<sup>3</sup> 8 hour(s). Form: Total dust

## Section 9. Physical and chemical properties

- Physical state** : Liquid. (Liquid.)
- Color** : Brown. (Dark.)
- Odor** : iodine
- pH** : 4.2 (100%)
- Boiling/condensation point** : >100 °C
- Specific gravity** : 1.036 (Water = 1)
- Viscosity** : Dynamic: 700 cP
- 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** : 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** : Moderately irritating to the skin.  
**Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Potential chronic health effects

**Teratogenic effects** : No known significant effects or critical hazards.  
**Chronic effects on humans** : Contains material which causes damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea.

## 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.	-	-	-	Not available.

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  
 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	*	1
	Fire hazard		0
	Reactivity		0
	Personal protection		A

**Date of issue** : 20-October-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.**