

### **ASTRI-IO**

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : ASTRI-IO

Other means of identification : Not applicable

Recommended use : Teat dip

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : Product is sold ready to use.

Company : Ecolab Inc.

370 N. Wabasha Street

St. Paul, Minnesota USA 55102

1-800-352-5326

Emergency health

information

: 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

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### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture.

## **GHS Label element**

Precautionary Statements : **Prevention**:

Wash hands thoroughly after handling.

Response:

Get medical advice/ attention if you feel unwell.

Storage:

Store in accordance with local regulations.

Other hazards : None known.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance/mixture : Mixture

Chemical Name CAS-No. Concentration (%)

 glycerin
 56-81-5
 1 - 5

 Propylene glycol
 57-55-6
 1 - 5

## **SECTION 4. FIRST AID MEASURES**

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

Protection of first-aiders : No special precautions are necessary for first aid responders.

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## **ASTRI-IO**

Notes to physician : No specific measures identified.

Most important symptoms and effects, both acute and

delayed

: See Section 11 for more detailed information on health effects and

symptoms.

### **SECTION 5. FIRE-FIGHTING MEASURES**

: Use extinguishing measures that are appropriate to local Suitable extinguishing media

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

Specific hazards during fire

fighting

: Not flammable or combustible.

Hazardous combustion

products

: Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

for fire-fighters

Special protective equipment : Use personal protective equipment.

Specific extinguishing

methods

: Fire residues and contaminated fire extinguishing water must be

disposed of in accordance with local regulations.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

: Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** : No special environmental precautions required.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain

material to ensure runoff does not reach a waterway.

#### SECTION 7. HANDLING AND STORAGE

: Wash hands after handling. For personal protection see section 8. Advice on safe handling

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

Storage temperature : 0 °C to 50 °C

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Ingredients with workplace control parameters

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## **ASTRI-IO**

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
glycerin	56-81-5	TWA	10 mg/m3	ACGIH
		TWA (respirable fraction)	5 mg/m3	OSHA Z1
Propylene glycol	57-55-6	TWA	10 mg/m3	AIHA WEEL

Engineering measures : Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

## Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

Hygiene measures : Wash hands before breaks and immediately after handling the

product.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : liquid

Color opaque, dark brown

Odor : iodine

рΗ : 3.5 - 4.1, 100 %

Flash point : Not applicable, Does not sustain combustion.

Odor Threshold : No data available Melting point/freezing point : No data available Initial boiling point and : No data available

boiling range

: No data available Evaporation rate Flammability (solid, gas) : No data available Upper explosion limit : No data available Lower explosion limit : No data available : No data available Vapor pressure Relative vapor density : No data available

Relative density : 1.012 Water solubility : soluble

Solubility in other solvents : No data available Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : No data available Thermal decomposition : No data available

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## **ASTRI-IO**

Viscosity, kinematic : 5.000 mm2/s (40 °C)

Explosive properties : No data available

Oxidizing properties : yes

: No data available Molecular weight VOC : No data available

### **SECTION 10. STABILITY AND REACTIVITY**

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

Conditions to avoid : None known.

: Acids and bases Incompatible materials

Hazardous decomposition

products

: Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

## **SECTION 11. TOXICOLOGICAL INFORMATION**

exposure

Information on likely routes of : Inhalation, Eye contact, Skin contact

#### **Potential Health Effects**

: Health injuries are not known or expected under normal use. Eyes

Skin : Health injuries are not known or expected under normal use.

: Health injuries are not known or expected under normal use. Ingestion

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

# **Experience with human exposure**

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

**Toxicity** 

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Acute inhalation toxicity : No data available

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## **ASTRI-IO**

Acute dermal toxicity : No data available Skin corrosion/irritation : No data available Serious eye damage/eye

irritation

: No data available

Respiratory or skin

sensitization

: No data available

: No data available

: No data available Carcinogenicity Reproductive effects : No data available Germ cell mutagenicity : No data available Teratogenicity : No data available

STOT-single exposure : No data available STOT-repeated exposure : No data available

Ingredients

Aspiration toxicity

Acute inhalation toxicity : Propylene glycol

4 h LC50 Rat: > 158.5 mg/l

Ingredients

Acute dermal toxicity glycerin

LD50 Rabbit: 23,000 mg/kg

## **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

**Environmental Effects** : Harmful to aquatic life.

**Product** 

Toxicity to fish : No data available : No data available Toxicity to daphnia and other

aquatic invertebrates

: No data available

Ingredients

Toxicity to algae

Toxicity to fish : glycerin

96 h LC50 Fish: 855 mg/l

Propylene glycol

96 h LC50: > 10,000 mg/l

Ingredients

Toxicity to daphnia and other : Propylene glycol

aquatic invertebrates

48 h EC50: 18,340 mg/l

Ingredients

Toxicity to algae : Propylene glycol

96 h EC50: 19,000 mg/l

Persistence and degradability

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## **ASTRI-IO**

No data available

#### **Bioaccumulative potential**

No data available

### Mobility in soil

No data available

#### Other adverse effects

No data available

### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : The product should not be allowed to enter drains, water courses or

the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste

disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to

an approved waste handling site for recycling or disposal. Do not reuse empty containers. Dispose of in accordance with local, state, and

federal regulations.

### **SECTION 14. TRANSPORT INFORMATION**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

#### Land transport (DOT)

Not dangerous goods

### Sea transport (IMDG/IMO)

Not dangerous goods

## **SECTION 15. REGULATORY INFORMATION**

# **EPCRA - Emergency Planning and Community Right-to-Know**

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

# SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting requirements

of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known

CAS numbers that exceed the threshold (De Minimis) reporting levels

established by SARA Title III, Section 313.

### California Prop 65

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## **ASTRI-IO**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### The ingredients of this product are reported in the following inventories:

## **United States TSCA Inventory:**

On TSCA Inventory

#### Canadian Domestic Substances List (DSL):

All components of this product are on the Canadian DSL

#### Australia Inventory of Chemical Substances (AICS):

not determined

### New Zealand. Inventory of Chemical Substances:

On the inventory, or in compliance with the inventory

### Japan. ENCS - Existing and New Chemical Substances Inventory:

not determined

# Japan. ISHL - Inventory of Chemical Substances (METI) :

not determined

## Korea. Korean Existing Chemicals Inventory (KECI):

On the inventory, or in compliance with the inventory

## Philippines Inventory of Chemicals and Chemical Substances (PICCS):

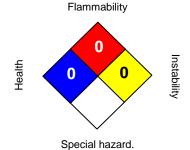
not determined

### China. Inventory of Existing Chemical Substances in China (IECSC):

not determined

### **SECTION 16. OTHER INFORMATION**

#### NFPA:



# HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

Issuing date : 11/13/2015

Version : 1.0

Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

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# **ASTRI-IO**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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