

#### **SOLITAIRE**

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

Product name : SOLITAIRE

Other means of identification : Not applicable

Recommended use : Manual Warewashing Detergent

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.03 % - 0.08 %

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)

Issuing date : 08/18/2015

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

#### **GHS Classification**

**Product AS SOLD** 

Skin irritation : Category 2 Eye irritation : Category 2B

#### **Product AT USE DILUTION**

Not a hazardous substance or mixture.

#### **GHS Label element**

# **Product AS SOLD**

Hazard pictograms



Signal Word : Warning

Hazard Statements : Causes skin and eye irritation.

Precautionary Statements : **Prevention:** 

Wash skin thoroughly after handling.

Response:

IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

**Product AT USE DILUTION** 

Precautionary Statements : **Prevention:** 

Wash hands thoroughly after handling.

Response:

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Get medical advice/ attention if you feel unwell.

Storage:

Store in accordance with local regulations.

**Product AS SOLD** 

Other hazards : None known.

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

**Product AS SOLD** 

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
sodium dodecylbenzene sulfonate	25155-30-0	30 - 60
Polyethylene Glycol	25322-68-3	10 - 30
dodecanamide, n-(2-hydroxyethyl)-	142-78-9	10 - 30
Sodium poly(oxyethylene) dodecyl ether sulfate	68585-34-2	5 - 10
Alkylamineoxides	68155-09-9	5 - 10
acetic acid, sodium salt	127-09-3	1 - 5
ethanol	64-17-5	1 - 5

#### **Product AT USE DILUTION**

No hazardous ingredients

# **SECTION 4. FIRST AID MEASURES**

**Product AS SOLD** 

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

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use

a mild soap if available. Get medical attention if irritation develops and

persists.

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.

Notes to physician : Treat symptomatically.

Most important symptoms and effects, both acute and

delayed

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

symptoms.

**Product AT USE DILUTION** 

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.

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

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

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

Special protective equipment

for fire-fighters

: Use personal protective equipment.

Specific extinguishing

methods

: Fire residues and contaminated fire extinguishing water must be

disposed of in accordance with local regulations. In the event of fire

and/or explosion do not breathe fumes.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Product AS SOLD** 

Personal precautions, protective equipment and emergency procedures : Ensure clean-up is conducted by trained personnel only. Refer to

protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

: Sweep up and shovel into suitable containers for disposal.

**Product AT USE DILUTION** 

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 non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Do not flush into surface water or sanitary sewer

system.

# **SECTION 7. HANDLING AND STORAGE**

**Product AS SOLD** 

Advice on safe handling : Avoid contact with skin and eyes. Wash hands thoroughly after

handling.

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

Storage temperature : 0 °C to 50 °C

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**Product AT USE DILUTION** 

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

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

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

#### **Product AS SOLD**

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
Polyethylene Glycol	25322-68-3	TWA (Aerosol.)	10 mg/m3	AIHA WEEL
ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z1

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 : Due to the form and packaging of the product, no protective

equipment is needed under normal use conditions.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

**Product AT USE DILUTION** 

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.

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

Product AS SOLD Product AT USE DILUTION

Appearance : Cast Solid liquid

Color : opaque, light pink colorless

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Odor : citrus

pΗ : 7.0 - 9.0, 1%

Flash point : Not applicable Odor Threshold : No data available : No data available Melting point/freezing point Initial boiling point and

boiling range

: No data available

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

Water solubility : insoluble

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

octanol/water

Relative density

: No data available

Autoignition temperature : No data available Thermal decomposition : No data available Viscosity, kinematic : No data available : No data available Explosive properties Oxidizing properties : No data available Molecular weight No data available VOC : No data available

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

**Product AS SOLD** 

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

citrus

7.0 - 8.0

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition

products

Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Eye contact, Skin contact

exposure

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#### **Potential Health Effects**

**Product AS SOLD** 

Eyes : Causes eye irritation.

Skin : Causes skin irritation.

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

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

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

**Product AT USE DILUTION** 

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

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

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

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**

**Product AS SOLD** 

Eye contact : Redness, Irritation

Skin contact : Redness, Irritation

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

**Product AT USE DILUTION** 

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** 

**Product AS SOLD** 

Acute oral toxicity : Acute toxicity estimate : 3,358 mg/kg

Acute inhalation toxicity : No data available

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

Skin corrosion/irritation : No data available

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Serious eye damage/eye

irritation

: Mild eye irritation

Respiratory or skin

sensitization

: No data available

Carcinogenicity : No data available

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

Aspiration toxicity : No data available

Ingredients

Acute inhalation toxicity : acetic acid, sodium salt

4 h LC50 Rat: > 5.6 mg/l

ethanol

4 h LC50 Rat: 117 mg/l

# **SECTION 12. ECOLOGICAL INFORMATION**

Product AS SOLD Ecotoxicity

Environmental Effects : Toxic to aquatic life.

**Product** 

Toxicity to fish : No data available

Toxicity to daphnia and other : No data available

aquatic invertebrates

Toxicity to algae : No data available

Ingredients

Toxicity to fish : sodium dodecylbenzene sulfonate

96 h LC50: 3.2 mg/l

Polyethylene Glycol

96 h LC50 Fish: > 1,000 mg/l

dodecanamide, n-(2-hydroxyethyl)-

96 h LC50 Fish: > 100 mg/l

Sodium poly(oxyethylene) dodecyl ether sulfate

96 h LC50 Fish: 28 mg/l

acetic acid, sodium salt 96 h LC50 Fish: > 100 mg/l

ethanol

96 h LC50 Fish: 11,000 mg/l

### Persistence and degradability

No data available

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#### **Bioaccumulative potential**

No data available

#### Mobility in soil

No data available

#### Other adverse effects

No data available

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

#### **Product AS SOLD**

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.

**Product AT USE DILUTION** 

Disposal methods : Diluted product can be flushed to sanitary sewer.

Disposal considerations : Dispose of in accordance with local, state, and federal regulations.

# **SECTION 14. TRANSPORT INFORMATION**

#### **Product AS SOLD**

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

#### **Product AT USE DILUTION**

Not intended for transport.

#### **SECTION 15. REGULATORY INFORMATION**

# **Product AS SOLD**

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

#### **CERCLA Reportable Quantity**

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ
			(lbs)
sodium dodecylbenzene sulfonate	25155-30-0	1000	3247

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#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Acute Health Hazard

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

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):

On the inventory, or in compliance with the inventory

# New Zealand. Inventory of Chemical Substances :

On the inventory, or in compliance with the inventory

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

On the inventory, or in compliance with the inventory

#### 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):

On the inventory, or in compliance with the inventory

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

On the inventory, or in compliance with the inventory

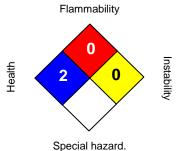
#### **SECTION 16. OTHER INFORMATION**

# **Product AS SOLD**

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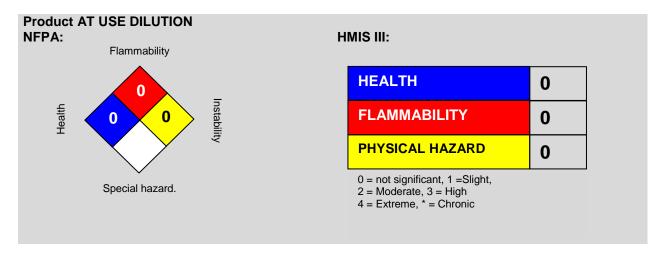
#### NFPA:



#### HMIS III:

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0

- 0 = not significant, 1 = Slight,
- 2 = Moderate, 3 = High
- 4 = Extreme, \* = Chronic



Issuing date : 08/18/2015

Version : 1.1

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.

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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