

## 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.

1 Ecolab Place

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 : 12/18/2024

## **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

**Product AS SOLD** 

Skin irritation : Category 2
Eye irritation : Category 2B
Specific target organ toxicity - : Category 2

repeated exposure (Oral)

## **Product AT USE DILUTION**

Not a hazardous substance or mixture.

# **GHS** label elements

## **Product AS SOLD**

Hazard pictograms :





Signal Word : Warning

Hazard Statements : Causes skin and eye irritation.

May cause damage to organs through prolonged or repeated

exposure if swallowed.

Precautionary Statements : **Prevention:** 

Do not breathe dust. Wash skin thoroughly after handling. Wear

protective gloves.

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. Get medical advice/

attention if you feel unwell. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take

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off contaminated clothing and wash before reuse.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

**Product AT USE DILUTION** 

**Precautionary Statements** : Prevention:

Wash hands thoroughly after handling.

Response:

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
Amides, coco, N-[3-(dimethylamino)propyl], N-	68155-09-9	5 - 10
oxides		
Sodium poly(oxyethylene) dodecyl ether sulfate	68585-34-2	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

symptoms.

: See Section 11 for more detailed information on health effects and and effects, both acute and delayed

**Product AT USE DILUTION** 

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

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

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

If inhaled : Get medical attention if symptoms occur.

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

**Product AS SOLD** 

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

Special protective equipment : Use personal protective equipment.

for fire-fighters

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 noncombustible 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**

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

handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment

(PPE).

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

Storage temperature : 0 °C to 50 °C

**Product AT USE DILUTION** 

Advice on safe handling: Wash hands after handling. In case of mechanical malfunction, or if in

contact with unknown dilution of product, wear full Personal Protective

Equipment (PPE). 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

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Polyethylene Glycol	25322-68-3	TWA (Aerosol.)	10 mg/m3	AIHA WEEL

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

## Personal protective equipment

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

equipment is needed under normal use conditions.

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. Wash face, hands and any exposed skin thoroughly after

handling.

**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.

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# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Product AS SOLD** 

Appearance : Cast Solid

Color : opaque, light pink

Odor : citrus

pH : 7.0 - 9.0, (1 %)

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

boiling range

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Water solubility : insoluble

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

octanol/water

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

VOC : No data available

# **SECTION 10. STABILITY AND REACTIVITY**

**Product AS SOLD** 

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition : In the event of fire, see Section 5

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**Product AT USE DILUTION** 

liquid

colorless

citrus

7.0 - 8.0

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products

# **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Eye contact, Skin contact

exposure

# **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 : May cause damage to organs through prolonged or repeated

exposure.

**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.

: 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**

**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** 

Product

Acute oral toxicity : Acute toxicity estimate : 2,283 mg/kg

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Acute inhalation toxicity : 4 h Acute toxicity estimate : 81.83 mg/l

Test atmosphere: dust/mist

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

Skin corrosion/irritation : No data available Serious eye damage/eye : No data available

irritation

Respiratory or skin : No data available

sensitization

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

## **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

**Product AS SOLD** 

Environmental Effects : Toxic to aquatic life.

**Product AT USE DILUTION** 

Environmental Effects : This product has no known ecotoxicological effects.

Product AS SOLD Product

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

Toxicity to algae : No data available

Components

Toxicity to fish : sodium dodecylbenzene sulfonate

96 h LC50 Fish: 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

Amides, coco, N-[3-(dimethylamino)propyl], N-oxides 96 h LC50 Leuciscus idus (Golden orfe): 5.9 mg/l

Sodium poly(oxyethylene) dodecyl ether sulfate

96 h LC50 Fish: 28 mg/l

Components

Toxicity to daphnia and other

aquatic invertebrates

: Amides, coco, N-[3-(dimethylamino)propyl], N-oxides 48 h EC50 Daphnia magna (Water flea): 46 mg/l

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## Components

Toxicity to algae : Amides, coco, N-[3-(dimethylamino)propyl], N-oxides

72 h EC50: > 500 mg/l

## Persistence and degradability

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

Biodegradable

#### 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 : Do not contaminate ponds, waterways or ditches with chemical or

used container. 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

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

#### **Product AS SOLD**

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

# **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ
			(lbs)
sodium dodecylbenzene sulfonate	25155-30-0	1000	2900

# SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Specific target organ toxicity (single or repeated exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section 302

EHS TPQ.

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.

## California Cleaning Product Right to Know Act of 2017 (SB 258)

This regulation applies to this product.

Hazardous ingredients	CAS-No.	Function	List(s)
sodium dodecylbenzene sulfonate	25155-30-0	Cleaning Agent	Not Applicable
Polyethylene Glycol	25322-68-3	Cleaning Agent	Not Applicable
dodecanamide, n-(2-	142-78-9	Cleaning Agent	Not Applicable
hydroxyethyl)-			
water	7732-18-5	Diluent	Not Applicable
Amides, coco, N-[3-	68155-09-9	Cleaning Agent	Not Applicable
(dimethylamino)propyl], N-oxides			
Organic salt	Withheld	Solvent	Not Applicable
Sodium poly(oxyethylene)	68585-34-2	Buffer	Not Applicable
dodecyl ether sulfate			
Polyol	Withheld	Biocide	Not Applicable
sodium sulfate	7757-82-6	Cleaning Agent	20
ethanol	64-17-5	Solvent	Not Applicable
Substituted alkylamine	Withheld	Cleaning Agent	Not Applicable
Fatty acid ester	Withheld	Cleaning Agent	Not Applicable
nonionic surfactant	Withheld	Cleaning Agent	Not Applicable
Diamine	Withheld	Cleaning Agent	Not Applicable
Peroxides	Withheld	Cleaning Agent	Not Applicable
Limonene	5989-27-5	Fragrance	FRA
Proprietary CBI buffer	Withheld	Cleaning Agent	Not Applicable
terpinolene	586-62-9	Fragrance	Not Applicable
Silicone	Withheld	Processing Aid	Not Applicable
Colorant	Withheld	Dye	Not Applicable
Silicon-containing polymer	Withheld	Processing Aid	Not Applicable
Silicone	Withheld	Processing Aid	Not Applicable
Substituted phenol	Withheld	Processing Aid	Not Applicable
Adipate de bis(2-éthylhexyle)	103-23-1	Fragrance	17
2-methylpropan-2-ol	75-65-0	Fragrance	16

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\*refer to ecolab.com/sds for electronic links to designated lists

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

# **United States TSCA Inventory:**

All substances listed as active on the TSCA inventory

## Canadian Domestic Substances List (DSL):

All components of this product are on the Canadian DSL

# Australia. Australian Industrial Chemicals Introduction Scheme (AICIS):

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:

On the inventory, or in compliance with the inventory

#### 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):

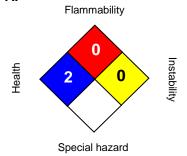
On the inventory, or in compliance with the inventory

#### Taiwan Chemical Substance Inventory (TCSI):

not determined

# **SECTION 16. OTHER INFORMATION**

# Product AS SOLD NFPA:



#### HMIS III:

HEALTH	2*
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

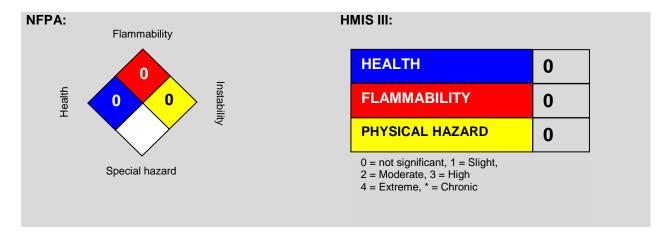
2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

## **Product AT USE DILUTION**

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Issuing date : 12/18/2024

Version : 5.0

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.

The information provided in this 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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