

ENZYMATIC DETERGENT

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ENZYMATIC DETERGENT

Other means of identification : Not applicable

Recommended use : Instrument Care

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.39063 % - 0.78125 %

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 : 06/18/2019

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD

Eye irritation : Category 2A

Product AT USE DILUTION

Not a hazardous substance or mixture.

GHS label elements

Product AS SOLD

Hazard pictograms



Signal Word : Warning

Hazard Statements : Causes serious eye irritation.

Precautionary Statements : **Prevention**:

Wash skin thoroughly after handling. Wear eye protection/ face

protection. Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye

irritation persists: Get medical advice/ attention.

Product AT USE DILUTION

Precautionary Statements : **Prevention:**

Wash hands thoroughly after handling.

Response:

Get medical advice/ attention if you feel unwell.

Storage:

920942-02 1 / 10

ENZYMATIC DETERGENT

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 (%)

 Propylene glycol
 57-55-6
 10 - 30

 alcohols, c12-14-secondary, ethoxylated
 84133-50-6
 1 - 5

 glycerin
 56-81-5
 1 - 5

 subtilisin
 9014-01-1
 0.1 - 1

Product AT USE DILUTION

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

Product AS SOLD

In case of eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye

irritation persists: Get medical advice/ attention.

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 : If potential for exposure exists refer to Section 8 for specific personal

protective equipment.

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

Product AS SOLD

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

circumstances and the surrounding environment.

920942-02 2 / 10

ENZYMATIC DETERGENT

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

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

: 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.

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.

SECTION 7. HANDLING AND STORAGE

Product AS SOLD

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 40 °C

Product AT USE DILUTION

920942-02 3 / 10

ENZYMATIC DETERGENT

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
Propylene glycol	57-55-6	TWA	10 mg/m3	AIHA WEEL
glycerin	56-81-5	TWA	10 mg/m3	ACGIH
		TWA (respirable fraction)	5 mg/m3	OSHA Z1
subtilisin	9014-01-1	Ceiling	0.00006 mg/m3 (crystalline active enzyme)	ACGIH
		STEL	0.00006 mg/m3	NIOSH REL

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

exposure to airborne contaminants.

Personal protective equipment

Eye protection : Safety glasses with side-shields

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 : 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Product AS SOLD Product AT USE DILUTION

920942-02 4 / 10

ENZYMATIC DETERGENT

Appearance : liquid

Color : cloudy, light green

Odor : Perfumes, fragrances

pΗ : 6.0 - 8.5, (100 %)

Flash point : Not applicable Odor Threshold : No data available

Initial boiling point and

Melting point/freezing point

: No data available : 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 Vapor pressure : No data available Relative vapor density : No data available

: 1.02 - 1.04 Relative density

Water solubility : No data available 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 : 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

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

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

liquid

light green

6.5 - 6.8

Perfumes, fragrances

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be produced

such as: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

920942-02 5/10

ENZYMATIC DETERGENT

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

exposure

Potential Health Effects

Product AS SOLD

: Causes serious eye irritation. Eyes

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.

Product AT USE DILUTION

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

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

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

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

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

Experience with human exposure

Product AS SOLD

Eye contact : Redness, Pain, Irritation

Skin contact : No symptoms known or expected.

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

Acute inhalation toxicity : No data available Acute dermal toxicity : No data available Skin corrosion/irritation : No data available

920942-02 6/10

ENZYMATIC DETERGENT

Serious eye damage/eye

irritation

: No data available

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

Components

Acute inhalation toxicity : Propylene glycol

4 h LC50 Rat: > 158.5 mg/l Test atmosphere: dust/mist

Components

Acute dermal toxicity : alcohols, c12-14-secondary, ethoxylated

LD50 Rat: > 2,000 mg/kg

glycerin

LD50 Rabbit: 23,000 mg/kg

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

Components

Toxicity to fish : Propylene glycol

96 h LC50: > 10,000 mg/l

alcohols, c12-14-secondary, ethoxylated 96 h LC50 Pimephales promelas: 3.5 mg/l

Test substance: Information given is based on data obtained from

similar substances.

glycerin

96 h LC50 Fish: 855 mg/l

Components

Toxicity to daphnia and other

aquatic invertebrates

: Propylene glycol

48 h EC50: 18,340 mg/l

920942-02 7 / 10

ENZYMATIC DETERGENT

alcohols, c12-14-secondary, ethoxylated

48 h EC50 Daphnia magna (Water flea): 3.1 mg/l

Test substance: Information given is based on data obtained from

similar substances.

subtilisin

48 h EC50: 1.4 mg/l

Components

Toxicity to algae : Propylene glycol

96 h EC50: 19,000 mg/l

Persistence and degradability

Product AS SOLD

Readily biodegradable.

Product AT USE DILUTION

Readily 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)

920942-02 8 / 10

ENZYMATIC DETERGENT

Not dangerous goods

Sea transport (IMDG/IMO)

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

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 : 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 does not apply to this product.

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

Switzerland. New notified substances and declared preparations :

not determined

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 Inventory of Chemical Substances (AICS):

not determined

New Zealand. Inventory of Chemical Substances:

not determined

Japan. ENCS - Existing and New Chemical Substances Inventory :

not determined

Korea. Korean Existing Chemicals Inventory (KECI):

not determined

920942-02 9 / 10

ENZYMATIC DETERGENT

Philippines Inventory of Chemicals and Chemical Substances (PICCS) : not determined

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

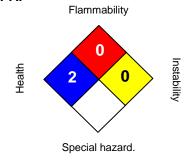
not determined

Taiwan Chemical Substance Inventory (TCSI):

not determined

SECTION 16. OTHER INFORMATION

Product AS SOLD NFPA:



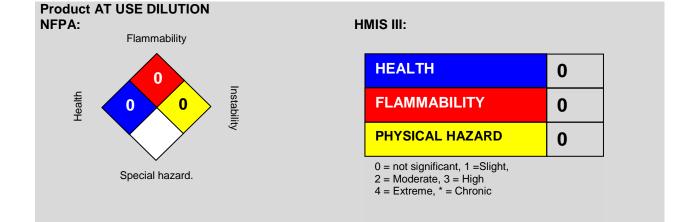
HMIS III:

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic



Issuing date : 06/18/2019

Version : 1.2

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.

920942-02 10 / 10