

# OPTIPRO MULTI-ENZYMATIC MANUAL DETERGENT CONCENTRATE

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

Product name : OPTIPRO MULTI-ENZYMATIC MANUAL DETERGENT

CONCENTRATE

Other means of identification : Not applicable

Recommended use : Instrument cleaner

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.1 % - 0.4 %

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 : 06/02/2021

## **SECTION 2. HAZARDS IDENTIFICATION**

## **GHS Classification**

#### **Product AS SOLD**

Not a hazardous substance or mixture.

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

Not a hazardous substance or mixture.

#### **GHS** label elements

**Product AS SOLD** 

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 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**

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# OPTIPRO MULTI-ENZYMATIC MANUAL DETERGENT CONCENTRATE

Pure substance/mixture : Mixture

Chemical name CAS-No. Concentration (%)

 Propylene glycol
 57-55-6
 10 - 30

 glycerin
 56-81-5
 5 - 10

 triethanolamine
 102-71-6
 5 - 10

 Oxirane, methyl-, polymer with oxirane, mono(2 166736-08-9
 1 - 5

propylheptyl) ether

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 : 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.

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.

**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.

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)

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# OPTIPRO MULTI-ENZYMATIC MANUAL DETERGENT CONCENTRATE

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.

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

**Product AS SOLD** 

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). Flush away traces with water. 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). 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**

**Product AS SOLD** 

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.

Storage temperature : 0 °C to 40 °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

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# OPTIPRO MULTI-ENZYMATIC MANUAL DETERGENT CONCENTRATE

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
triethanolamine	102-71-6	TWA	5 mg/m3	ACGIH
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 : 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.

**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**

Appearance : liquid liquid liquid
Color : clear, blue blue
Odor : slight mild
pH : 8.0 - 9.5, (100 %) 7.0 - 8.0

Flash point : Not applicable, Does not sustain combustion.

Odor Threshold : No data available

Melting point/freezing point : No data available

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# OPTIPRO MULTI-ENZYMATIC MANUAL DETERGENT CONCENTRATE

Initial boiling point and

boiling range

 $: > 100 \, ^{\circ}\text{C}$ 

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

: 1.06 - 1.08 Relative density

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

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

products

: In case of fire hazardous decomposition products may be produced

such as:

Carbon oxides

Nitrogen oxides (NOx)

## SECTION 11. TOXICOLOGICAL INFORMATION

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

exposure

#### **Potential Health Effects**

**Product AS SOLD** 

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

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# OPTIPRO MULTI-ENZYMATIC MANUAL DETERGENT CONCENTRATE

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** 

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 : No symptoms known or expected.

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

Acute inhalation toxicity : No data available

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

Respiratory of sensitization

: No data available

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

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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 Rabbit: 158.5 mg/l Test atmosphere: dust/mist

# **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

**Product AS SOLD** 

**Environmental Effects** : This product has no known ecotoxicological effects.

**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 : No data available

aquatic invertebrates

: No data available Toxicity to algae

Components

Toxicity to fish : Propylene glycol

96 h LC50 Fish: > 10,000 mg/l

glycerin

96 h LC50 Fish: 855 mg/l

triethanolamine

96 h LC50: 11,800 mg/l

Oxirane, methyl-, polymer with oxirane, mono(2-propylheptyl) ether

96 h LC50: > 10 - 100 mg/l

subtilisin

96 h LC50 Oncorhynchus mykiss (rainbow trout): 8.2 mg/l

Components

Toxicity to daphnia and other : Propylene glycol

aquatic invertebrates

48 h EC50 Aquatic Invertebrate: 18,340 mg/l

triethanolamine

48 h EC50: 609.88 mg/l

subtilisin

48 h EC50 Daphnia magna (Water flea): 0.868 mg/l

Components

Toxicity to algae : triethanolamine

72 h EC50: > 100 mg/l

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subtilisir

72 h EC50 Pseudokirchneriella subcapitata (green algae): 1.44 mg/l

## Persistence and degradability

#### **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 : Diluted product can be flushed to sanitary sewer.

Disposal considerations : 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**

# **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

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# OPTIPRO MULTI-ENZYMATIC MANUAL DETERGENT CONCENTRATE

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.

Chemical Name	CAS-No.	Function	List(s)
water	7732-18-5	Diluent	Not Applicable
Propylene glycol	57-55-6	Stabilizer	12
glycerin	56-81-5	Stabilizer	Not Applicable
triethanolamine	102-71-6	Buffer	Not Applicable
Oxirane, methyl-, polymer with	166736-08-9	Cleaning Agent	Not Applicable
oxirane, mono(2-propylheptyl)			
ether			
Acrylate polymer	Withheld	Cleaning Agent	Not Applicable
Nonionic surfactant	Withheld	Cleaning Agent	Not Applicable
Organic acid	Withheld	Buffer	Not Applicable
subtilisin	9014-01-1	Cleaning Agent	8
amylase, α-	9000-90-2	Cleaning Agent	8
Enzyme	Withheld	Cleaning Agent	Not Applicable
Substituted aromatic amine	Withheld	Cleaning Agent	Not Applicable
Isothiazolinones	Withheld	Biocide	Not Applicable
Colorant	Withheld	Dye	Not Applicable

<sup>\*</sup>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:

not determined

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

not determined

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

not determined

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

not determined

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

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# OPTIPRO MULTI-ENZYMATIC MANUAL DETERGENT CONCENTRATE

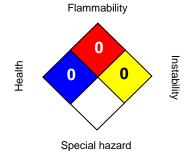
not determined

# Taiwan Chemical Substance Inventory (TCSI):

not determined

# **SECTION 16. OTHER INFORMATION**

# **Product AS SOLD** NFPA:



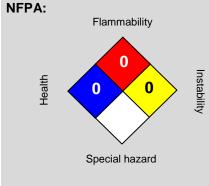
#### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

# **Product AT USE DILUTION**



## HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

Issuing date : 06/02/2021

Version : 1.4

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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