# Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product name : APEX MANUAL DETERGENT

UFI : CQ10-483D-8C0M-R362

Product code : 116630E

Use of the

Substance/Mixture

Manual Warewashing Detergent

Substance type: : Mixture

For professional users only.

Product dilution information : 0.028 % - 0.062 %

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Dishwash product. Manual process

Recommended restrictions

on use

: Reserved for industrial and professional use.

## 1.3 Details of the supplier of the safety data sheet

Company : Ecolab Limited

Forest Park

Mullingar Industrial Estate, Mullingar Co. Westmeath Ireland +353

1 276 3500

infoireland@ecolab.com

Ecolab Ltd.

PO Box 11; Winnington Avenue

Northwich, Cheshire, United Kingdom CW8 4DX

+353 (0)1 276 3500 ccs@ecolab.com

## 1.4 Emergency telephone number

Poison Information Centre

telephone number

Poisons Information: For information or to report a poisoning incident contact The National Poisons Information Centre (01

8092166)

Date of Compilation/Revision : 29.04.2022 Version : 3.1

## Section: 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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## Classification (REGULATION (EC) No 1272/2008)

**Product AS SOLD** 

Skin irritation, Category 2 H315
Serious eye damage, Category 1 H318
Chronic aquatic toxicity, Category 3 H412

The classification of this product is based on toxicological assessment.

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

Not a hazardous substance or mixture.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

**Product AS SOLD** 

Hazard pictograms

Signal Word : Danger

Hazard Statements : H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:** 

P273 Avoid release to the environment.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water

for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label: benzenesulfonic acid, C10-13- alkyl derivs., sodium salt

dodecanamide, n-(2-hydroxyethyl)-

## **Product AT USE DILUTION**

Not a hazardous substance or mixture.

# 2.3 Other hazards

**Product AS SOLD** 

None known.

# Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2 Mixtures

# Product AS SOLD Hazardous components

Chemical Name	CAS-No. EC-No.	Classification REGULATION (EC) No 1272/2008	Concentration : [%]
	REACH No.		

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benzenesulfonic acid, C10-13- alkyl derivs., sodium salt	68411-30-3 270-115-0 01-2119489428-22	Acute toxicity Category 4; H302 Skin irritation Category 2; H315 Serious eye damage Category 1; H318 Chronic aquatic toxicity Category 3; H412	>= 30 - < 47
Sodium poly(oxyethylene) dodecyl ether sulfate	68585-34-2 500-223-8 01-2119488639-16	Skin irritation Category 2; H315 Serious eye damage Category 1; H318	>= 10 - < 20
acetic acid, sodium salt	127-09-3 204-823-8 01-2119485123-42	Eye irritation Category 2; H319	>= 5 - < 10
dodecanamide, n-(2- hydroxyethyl)-	142-78-9 205-560-1 01-2120771556-45	Serious eye damage Category 1; H318	>= 5 - < 10
amides, coco, n- (hydroxyethyl)	68140-00-1 268-770-2 01-2119489413-33	Skin irritation Category 2; H315 Eye irritation Category 2; H319	>= 3 - < 5
C10-16 Polyglycoside	110615-47-9 01-2119489418-23	Skin irritation Category 2; H315 Serious eye damage Category 1; H318  Serious eye damage/eye irritation Category 1 > 12 - 100 % Serious eye damage/eye irritation Category 2 1 - 12 % Skin corrosion/irritation Category 2 30 - 100 %	>= 1 - < 2.5
Sodium silicate	1344-09-8 215-687-4 01-2119448725-31	Skin corrosion Category 1B; H314 Serious eye damage Category 1; H318 Specific target organ toxicity - single exposure Category 3; H335  Serious eye damage/eye irritation Category 1 >= 28 % Serious eye damage/eye irritation Category 2A 24 - < 28 % Skin corrosion/irritation Category 1B >= 39 % Skin corrosion/irritation Category 2 24 - < 39 % Specific target organ toxicity - single exposure Category 3 >= 24 %	>= 1 - < 2.5
alcohols, c10-16, ethoxylated	68002-97-1 500-182-6	Acute toxicity Category 4; H302 Skin irritation Category 2; H315 Serious eye damage Category 1; H318 Acute aquatic toxicity Category 1; H400  Serious eye damage/eye irritation Category 1 > 20 % Serious eye damage/eye irritation Category 2A > 10 - 20 % Serious eye damage/eye irritation Category 2B 1 - 10 %	>= 0.25 - < 0.5

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		Skin corrosion/irritation Category 2 > 25 % M = 1	
Substances with a workp	place exposure limit :		
monoethanolamine	141-43-5 205-483-3 01-2119486455-28	Acute toxicity Category 4; H302 Acute toxicity Category 4; H332 Acute toxicity Category 4; H312 Skin corrosion Sub-category 1B; H314 Chronic aquatic toxicity Category 3; H412 Specific target organ toxicity - single exposure Category 3; H335  Specific target organ toxicity - single exposure Category 3 H335 5 - 100 %	>= 0.1 - < 0.25

**Product AT USE DILUTION** 

Remarks : No hazardous ingredients

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **Section: 4. FIRST AID MEASURES**

## 4.1 Description of first aid measures

**Product AS SOLD** 

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for

at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

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 : Remove to fresh air. Treat symptomatically. Get medical attention

if symptoms occur.

**Product AT USE DILUTION** 

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

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

Rinse with plenty of water.

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

If inhaled : Get medical attention if symptoms occur.

## 4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

## 4.3 Indication of immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

# **Section: 5. FIREFIGHTING MEASURES**

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#### Product AS SOLD

## 5.1 Extinguishing media

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

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Not flammable or combustible.

Hazardous combustion

products

: Depending on combustion properties, decomposition products

may include following materials:

Carbon oxides

nitrogen oxides (NOx) Sulphur oxides

Oxides of phosphorus

#### 5.3 Advice for firefighters

for firefighters

Special protective equipment : Use personal protective equipment.

Further information : Collect contaminated fire extinguishing water separately. This

> must not be discharged into drains. 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

### 6.1 Personal precautions, protective equipment and emergency procedures

#### **Product AS SOLD**

Advice for non-emergency personnel

: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the

exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to

protective measures listed in sections 7 and 8.

Advice for emergency

responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable

materials.

## **Product AT USE DILUTION**

Advice for non-emergency

personnel

Advice for emergency

responders

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

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable

materials.

# 6.2 Environmental precautions

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**Product AS SOLD** 

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

**Product AT USE DILUTION** 

Environmental precautions : No special environmental precautions required.

# 6.3 Methods and materials for containment and cleaning up

**Product AS SOLD** 

Methods for cleaning up : Sweep up and shovel into suitable containers for disposal.

**Product AT USE DILUTION** 

Methods for 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.

#### 6.4 Reference to other sections

See Section 1 for emergency contact information.

For personal protection see section 8.

See Section 13 for additional waste treatment information.

## Section: 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

**Product AS SOLD** 

Advice on safe handling : Avoid contact with skin and eyes. Do not get in eyes, on skin, or

on clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not breathe dust. In case of mechanical malfunction, or if in contact with unknown dilution of

product, wear full Personal Protective Equipment (PPE).

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

practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after

handling. Provide suitable facilities for quick drenching or flushing

of the eyes and body in case of contact or splash hazard.

**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

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

product.

#### 7.2 Conditions for safe storage, including any incompatibilities

**Product AS SOLD** 

Requirements for storage

areas and containers

: Keep out of reach of children. Keep container tightly closed. Store

in suitable labeled containers.

Storage temperature : 0 °C to 50 °C

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## **Product AT USE DILUTION**

Requirements for storage : Keep out of reach of children. Keep container tightly closed. Store

areas and containers in suitable labeled containers.

# 7.3 Specific end uses

**Product AS SOLD** 

Specific use(s) : Dishwash product. Manual process

# Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

## **Product AS SOLD**

# **Occupational Exposure Limits**

Components	CAS-No.		Value type (Form of exposure)	Control parameters	Basis
monoethanolamine	141-43	-5	OELV - 15 min (STEL)	3 ppm 7.6 mg/m3	IR_OEL
Further information			ances which have the capacity to penetrate intact skin when they come tact with it, and be absorbed into the body		
			OELV - 8 hrs (TWA)	1 ppm 2.5 mg/m3	IR_OEL
Further information	Sk	Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body			

# DNEL

DINEL			
benzenesulfonic acid, C10-13-alkyl derivs., sodium salt		End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 85 mg/cm2  End Use: Workers Exposure routes: Dermal Potential health effects: Long-term local effects Value: 85 mg/cm2  End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 6 mg/m3  End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 6 mg/m3	
Sodium silicate	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 5.61 mg/m3  End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 1.59 mg/cm2	

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End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 1.38 mg/m3

End Use: Consumers Exposure routes: Dermal

Potential health effects: Long-term systemic effects

Value: 0.8 mg/cm2

End Use: Consumers Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Value: 0.8 ppm

## **PNEC**

benzenesulfonic acid, C10-13-alkyl derivs., sodium salt	:	Fresh water Value: 0.268 mg/l  Marine water Value: 0.0268 mg/l  Intermittent use/release Value: 0.0167 mg/l  Fresh water sediment Value: 8.1 mg/kg  Marine sediment Value: 8.1 mg/kg  Sewage treatment plant Value: 3.43 mg/l
Sodium silicate	:	Fresh water Value: 7.5 mg/l  Marine water Value: 1 mg/l  Intermittent use/release Value: 7.5 mg/l  Sewage treatment plant Value: 348 mg/l

# 8.2 Exposure controls

# Product AS SOLD Appropriate engineering controls

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

exposure to airborne contaminants.

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#### Individual protection measures

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

practice. Remove and wash contaminated clothing before re-use.

Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing

of the eyes and body in case of contact or splash hazard.

Eye/face protection (EN 166) : Due to the form and packaging of the product, no protective

equipment is needed under normal use conditions.

Hand protection (EN 374) : Due to the form and packaging of the product, no protective

equipment is needed under normal use conditions.

Skin and body protection

(EN 14605)

: No special protective equipment required.

Respiratory protection (EN

143, 14387)

: When respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization, consider the use of certified respiratory protection equipment meeting EU requirements (89/656/EEC, (EU) 2016/425), or equivalent, with filter type:A-P

# Product AT USE DILUTION Appropriate engineering controls

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

exposure to airborne contaminants.

Individual protection measures

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

product.

Eye/face protection (EN

166)

: No special protective equipment required.

Hand protection (EN 374) : No special protective equipment required.

Skin and body protection

(EN 14605)

: No special protective equipment required.

Respiratory protection (EN

143, 14387)

: None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified

respiratory protection equipment meeting EU

requirements(89/656/EEC, (EU) 2016/425), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods

or procedures of work organization.

## **Environmental exposure controls**

General advice : Consider the provision of containment around storage vessels.

## Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

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		Product AS SOLD	Product AT USE DILUTION
Physical state		solid	liquid
Colour		opaque, purple	IIquiu
Odour		citrus	pleasant
pH		7.0 - 10.0, 1 %	7.0 - 10.0
Particle characteristics	•	7.0 10.0, 1 /0	7.0 10.0
Assessment		no data available	not applicable
Particle size		no data available	not applicable
Particle Size Distribution		no data available	not applicable
Dustiness	:		not applicable
Specific surface area		no data available	not applicable
Surface charge/Zeta		no data available	not applicable
potential	•	no data avallable	пот аррисавіе
Shape	:	no data available	not applicable
Crystallinity	:	no data available	not applicable
Surface treatment /Coatings	:	no data available	not applicable
Flash point	:	Not applicable., Does not sustain	combustion.
Odour Threshold	:	Not applicable and/or not determine	ined for the mixture
Melting point/freezing point	:	Not applicable and/or not determined for the mixture	
Boiling point, initial boiling point and boiling range	:	: Not applicable and/or not determined for the mixture	
Evaporation rate	:	Not applicable and/or not determine	ined for the mixture
Flammability	:	Not applicable and/or not determine	ined for the mixture
Upper explosion limit	:	Not applicable and/or not determine	ined for the mixture
Lower explosion limit	:	Not applicable and/or not determine	ined for the mixture
Vapour pressure	:	Not applicable and/or not determine	ined for the mixture
Relative vapour density	:	Not applicable and/or not determine	ined for the mixture
Density and / or relative density	:	1.15 - 1.37	
Water solubility	:	insoluble	
Solubility in other solvents	:	Not applicable and/or not determine	ined for the mixture
Partition coefficient: n- octanol/water (log value)	:	Not applicable and/or not determine	ined for the mixture
Auto-ignition temperature	:	Not applicable and/or not determine	ined for the mixture
Thermal decomposition	:	Not applicable and/or not determine	ined for the mixture
Viscosity, kinematic	:	Not applicable and/or not determine	ined for the mixture
		No. 12 A.A. A.A. A.A. A.A. A.A. A.A. A.A.	

Explosive properties : Not applicable and/or not determined for the mixture

: The substance or mixture is not classified as oxidizing.

# 9.2 Other information

Oxidizing properties

Not applicable and/or not determined for the mixture

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## Section: 10. STABILITY AND REACTIVITY

#### **Product AS SOLD**

## 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

## 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

#### 10.4 Conditions to avoid

None known.

## 10.5 Incompatible materials

None known.

## 10.6 Hazardous decomposition products

Depending on combustion properties, decomposition products may include following materials: Carbon oxides

nitrogen oxides (NOx)

Sulphur oxides

Oxides of phosphorus

# Section: 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Product AS SOLD** 

Information on likely routes of : Eye contact, Skin contact

exposure

**Product** 

Acute oral toxicity : Acute toxicity estimate : > 2,000 mg/kg

Acute inhalation toxicity : There is no data available for this product.

Acute dermal toxicity : There is no data available for this product.

Skin corrosion/irritation : There is no data available for this product.

Serious eye damage/eye

irritation

: There is no data available for this product.

Respiratory or skin

sensitization

: There is no data available for this product.

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Carcinogenicity : There is no data available for this product.

Reproductive effects : There is no data available for this product.

Germ cell mutagenicity : There is no data available for this product.

Teratogenicity : There is no data available for this product.

STOT - single exposure : There is no data available for this product.

STOT - repeated exposure : There is no data available for this product.

Aspiration toxicity : There is no data available for this product.

Components

Acute oral toxicity : benzenesulfonic acid, C10-13- alkyl derivs., sodium salt LD50 rat:

1,080 mg/kg

Sodium poly(oxyethylene) dodecyl ether sulfate LD50 rat: 3,350

mg/kg

acetic acid, sodium salt LD50 rat: 3,530 mg/kg

dodecanamide, n-(2-hydroxyethyl)- LD50 rat: > 2,000 mg/kg

amides, coco, n-(hydroxyethyl) LD50 rat: 4,106 mg/kg

Sodium silicate LD50 rat: 3,400 mg/kg

alcohols, c10-16, ethoxylated LD50 rat: 1,000 mg/kg

monoethanolamine LD50 rat: 1,089 mg/kg

Components

Acute inhalation toxicity : acetic acid, sodium salt 4 h LC50 rat: > 5.6 mg/l

Test atmosphere: dust/mist

alcohols, c10-16, ethoxylated 4 h LC50 rat: > 50 mg/l

Test atmosphere: dust/mist

monoethanolamine 4 h LC50 rat: > 1.6 mg/l

Test atmosphere: dust/mist

Components

Acute dermal toxicity : Sodium poly(oxyethylene) dodecyl ether sulfate LD50 rat: > 2,000

mg/kg

acetic acid, sodium salt LD50 rabbit: > 20,000 mg/kg

Sodium silicate LD50 rat: > 5,000 mg/kg

Test substance: Information given is based on data obtained from

similar substances.

monoethanolamine LD50 rabbit: 1,025 mg/kg

**Potential Health Effects** 

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**Product AS SOLD** 

Eyes : Causes serious eye damage.

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.

**Product AT USE DILUTION** 

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 : 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, Pain, Corrosion

Skin contact : Redness, Irritation

No symptoms known or expected.

Ingestion : No symptoms known or expected.

No symptoms known or expected.

Inhalation : No symptoms known or expected.

No symptoms known or expected.

**Product AT USE DILUTION** 

Eye contact : No symptoms known or expected.

11.2 Information on other hazards

Further information : no data available

# Section: 12. ECOLOGICAL INFORMATION

## 12.1 Toxicity

**Product AS SOLD** 

Environmental Effects : Harmful to aquatic life with long lasting effects.

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**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

Toxicity to algae : no data available

Components

Toxicity to fish : benzenesulfonic acid, C10-13- alkyl derivs., sodium salt96 h LC50

Lepomis macrochirus (Bluegill sunfish): 1.67 mg/l

Sodium poly(oxyethylene) dodecyl ether sulfate96 h LC50 Fish:

28 mg/l

acetic acid, sodium salt96 h LC50 Fish: > 100 mg/l

dodecanamide, n-(2-hydroxyethyl)-96 h LC50 Fish: > 100 mg/l

C10-16 Polyglycoside96 h LC50 Fish: 5 mg/l

Sodium silicate96 h LC50 Oncorhynchus mykiss (rainbow trout):

260 mg/l

Components

Toxicity to daphnia and other aquatic invertebrates

benzenesulfonic acid, C10-13- alkyl derivs., sodium salt48 h LC50

Daphnia magna (Water flea): 2.4 mg/l

Sodium silicate48 h EC50 Daphnia magna (Water flea): 1,700

mg/l

alcohols, c10-16, ethoxylated48 h EC50: > 0.1 mg/l

monoethanolamine48 h LC50 Daphnia magna (Water flea): 65

mg/l

Components

Toxicity to algae : benzenesulfonic acid, C10-13- alkyl derivs., sodium salt96 h EC50

Pseudokirchneriella subcapitata (green algae): 29 mg/l

amides, coco, n-(hydroxyethyl)72 h EC50: 1.07 mg/l

Sodium silicate72 h EC50 Desmodesmus subspicatus (green

algae): 207 mg/l

## 12.2 Persistence and degradability

**Product** 

no data available

Components

Biodegradability : benzenesulfonic acid, C10-13- alkyl derivs., sodium saltResult:

Readily biodegradable.

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Sodium poly(oxyethylene) dodecyl ether sulfateResult: Readily biodegradable.

acetic acid, sodium saltResult: Readily biodegradable.

dodecanamide, n-(2-hydroxyethyl)-Result: Biodegradable

amides, coco, n-(hydroxyethyl)Result: Readily biodegradable.

C10-16 PolyglycosideResult: Readily biodegradable.

Sodium silicateResult: Not applicable - inorganic

alcohols, c10-16, ethoxylatedResult: Readily biodegradable.

monoethanolamineResult: Readily biodegradable.

## 12.3 Bioaccumulative potential

no data available

#### 12.4 Mobility in soil

no data available

#### 12.5 Results of PBT and vPvB assessment

#### **Product**

Assessment : This substance/mixture contains no components considered to be

either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or

higher.

# 12.6 Endocrine disrupting properties

no data available

## 12.7 Other adverse effects

no data available

# Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

#### 13.1 Waste treatment methods

## **Product AS SOLD**

Product : Do not contaminate storm water drains, natural waterways or soil

with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations

Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do

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not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

Guidance for Waste Code selection

: Organic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations.

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

Product : Diluted product can be flushed to sanitary sewer if regulations

permit.

Contaminated packaging : 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 (ADR/ADN/RID)

14.1 UN number or ID : Not dangerous goods

number

14.2 UN proper shipping : Not dangerous goods

name

14.3 Transport hazard : Not dangerous goods

class(es)

14.4 Packing group
14.5 Environmental hazards
14.6 Special precautions for
Not dangerous goods
Not dangerous goods

user

## Air transport (IATA)

14.1 UN number or ID : Not dangerous goods

number

14.2 UN proper shipping : Not dangerous goods

name

14.3 Transport hazard : Not dangerous goods

class(es)

14.4 Packing group
14.5 Environmental hazards
14.6 Special precautions for
Not dangerous goods
Not dangerous goods

user

# Air transport (IATA)

Contact Regulatory for air freight eligibility

## Sea transport (IMDG/IMO)

14.1 UN number or ID : Not dangerous goods

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number

14.2 UN proper shipping : Not dangerous goods

name

14.3 Transport hazard : Not dangerous goods

class(es)

14.4 Packing group14.5 Environmental hazards14.6 Special precautions forNot dangerous goodsNot dangerous goods

user

14.7 Maritime transport in

bulk according to IMO

instruments

: Not dangerous goods

## Section: 15. REGULATORY INFORMATION

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

according to Detergents : 30 % and more: Anionic surfactants

Regulation EC 648/2004 5 % or over but less than 15 %: Non-ionic surfactants

Other constituents: Perfumes

Allergens: Limonene

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of majoraccident hazards involving dangerous substances.

Not applicable.

## **National Regulations**

## Take note of Dir 94/33/EC on the protection of young people at work.

Other regulations : Safety, Health and Welfare at Work Act, 2005

European Communities (Classification, Packaging, Labelling and Notification of Dangerous Preparations) Regulations 1995. (S.I.

272 of 1995) as amended

#### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out on the product.

# **Section: 16. OTHER INFORMATION**

# Procedure used to derive the classification according to REGULATION (EC) No 1272/2008

Classification	Justification
Skin irritation 2, H315	Calculation method
Serious eye damage 1, H318	Calculation method
Chronic aquatic toxicity 3, H412	Calculation method

## **Full text of H-Statements**

H302	Harmful if swallowed.
H312	Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

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H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration: ICAO - International Civil Aviation Organization: IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN -United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

Prepared by : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

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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Annex: Exposure Scenarios

**Exposure Scenario: Dishwash product. Manual process** 

Life Cycle Stage : Widespread use by professional workers

Product category : PC35 Washing and cleaning products (including solvent based

products)

Contributing scenario controlling environmental exposure for:

Environmental release

category

: ERC8a

Wide dispersive indoor use of processing aids in open

systems

Daily amount per site : 7.5 kg

Type of Sewage Treatment

Plant

: Municipal sewage treatment plant

Contributing scenario controlling worker exposure for:

Process category : **PROC10** Roller application or brushing

Exposure duration : 480 min

Operational conditions and

risk management measures

Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection : see section 8

Respiratory Protection : see section 8

Contributing scenario controlling worker exposure for:

Process category : PROC8a Transfer of substance or preparation (charging/

discharging) from/ to vessels/ large containers at non-

dedicated facilities

Exposure duration : 60 min

Operational conditions and risk management measures

Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection : see section 8

Respiratory Protection : see section 8

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