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

#### 1.1 Product identifier

Product name : LIME-A-WAY EXTRA

Product code : 103223E

Use of the : Delimer

Substance/Mixture

Substance type: : Mixture

For professional users only.

Product dilution information : 0.5 % - 2.5 %

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

Identified uses : Dishwash and rinse aid product; Automatic process

Descaling agent. 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 Ltd.

PO Box 11; Winnington Avenue

Northwich, Cheshire, United Kingdom CW8 4DX

+ 44 (0)1606 74488 ccs@ecolab.com

#### 1.4 Emergency telephone number

Emergency telephone : +441618841235

number +32-(0)3-575-5555 Trans-European

Date of Compilation/Revision : 01.04.2019

Version : 1.7

#### **Section: 2. HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance or mixture

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

## **Product AS SOLD**

Corrosive to metals, Category 1 H290
Skin corrosion, Category 1 H314
Serious eye damage, Category 1 H318

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

Not a hazardous substance or mixture.

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#### 2.2 Label elements

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

**Product AS SOLD** 

Hazard pictograms

Signal Word : Danger

Hazard Statements : H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:** 

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately

all contaminated clothing. Rinse skin with water

or shower.

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: Phosphoric acid

## **Product AT USE DILUTION**

Not a hazardous substance or mixture.

#### 2.3 Other hazards

#### **Product AS SOLD**

Do not mix with bleach or other chlorinated products - will cause chlorine gas.

## 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: [%]
Phosphoric acid	REACH No. 7664-38-2	Skin corrosion Category 1B; H314	>= 30 - < 50
rnospholic acid	231-633-2 01-2119485924-24	Corrosive to metals Category 1; H290	<i>y</i> = 30 - < 50
Alcohols, C12-15- branched and linear, ethoxylated propoxylated	120313-48-6 POLYMER	Skin irritation Category 2; H315 Serious eye damage Category 1; H318 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 3; H412	>= 1 - < 2.5

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# Product AT USE DILUTION Hazardous components

Chemical Name	CAS-No.	Classification	Concentration:
	EC-No.	REGULATION (EC) No 1272/2008	[%]
	REACH No.	,	
Substances with a workplace exposure limit :			
Phosphoric acid	7664-38-2	Skin corrosionCategory 1B; H314	>= 0.5 - < 1
	231-633-2	Corrosive to metalsCategory 1; H290	
	01-2119485924-24		

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 skin contact

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.

: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention

immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. Get medical

attention immediately.

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.

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**

#### **Product AS SOLD**

#### 5.1 Extinguishing media

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

circumstances and the surrounding environment.

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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

Oxides of phosphorus

#### 5.3 Advice for firefighters

for firefighters

Special protective equipment : Use personal protective equipment.

Further information : 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

**Product AS SOLD** 

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

**Product AT USE DILUTION** 

: No special environmental precautions required. Environmental precautions

#### 6.3 Methods and materials for containment and cleaning up

**Product AS SOLD** 

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,

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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**

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). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

#### 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

 Do not ingest. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation. Wash hands thoroughly after handling.
 Do not breathe spray, vapour. Do not mix with bleach or other chlorinated products – will cause chlorine gas.

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. 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 away from strong bases. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Keep only in original container. Absorb spillage to prevent material

damage.

Storage temperature : 10 °C to 30 °C

Packaging material : Suitable material: Plastic material

Unsuitable material: Aluminium, Mild steel

## **Product AT USE DILUTION**

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

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areas and containers in suitable labeled containers.

#### 7.3 Specific end uses

**Product AS SOLD** 

## 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
Phosphoric acid	7664-38-2	TWA	1 mg/m3	UKCOSSTD
		STEL	2 mg/m3	UKCOSSTD

#### DNEL

T		
Phosphoric acid	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 2 mg/m3
		End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 1 mg/m3
		End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 0.73 mg/m3

## 8.2 Exposure controls

#### **Product AS SOLD**

#### **Appropriate engineering controls**

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

# 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) : Safety goggles

Face-shield

Hand protection (EN 374) : Recommended preventive skin protection

Gloves Nitrile rubber butyl-rubber

Breakthrough time: 1 – 4 hours

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Minimum thickness for butyl-rubber 0.7 mm for nitrile rubber 0.4 mm or equivalent (please refer to the gloves

manufacturer/distributor for advise).

Gloves should be discarded and replaced if there is any indication

of degradation or chemical breakthrough.

Skin and body protection

(EN 14605)

: Personal protective equipment comprising: suitable protective

gloves, safety goggles and protective clothing including

appropriate safety shoes

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.

## **Product AT USE DILUTION** Appropriate engineering controls

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

exposure to airborne contaminants.

Individual protection measures

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

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

**Product AS SOLD Product AT USE DILUTION** 

Appearance : liquid liquid

Colour : greenish-yellow greenish-yellow

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Odour : odourless not significant

Hq : 0.2 - 0.5, 100 % 2.3 - 2.8

Flash point : Not applicable.

Odour Threshold : Not applicable and/or not determined for the mixture Melting point/freezing point : Not applicable and/or not determined for the mixture

Initial boiling point and

boiling range

: Not applicable and/or not determined for the mixture

Evaporation rate : Not applicable and/or not determined for the mixture Flammability (solid, gas) : Not applicable and/or not determined for the mixture : Not applicable and/or not determined for the mixture Upper explosion limit Lower explosion limit : Not applicable and/or not determined for the mixture Vapour pressure : Not applicable and/or not determined for the mixture Relative vapour density : Not applicable and/or not determined for the mixture

Relative density : 1.18 - 1.216

Water solubility : soluble

: Not applicable and/or not determined for the mixture Solubility in other solvents Partition coefficient: n-: Not applicable and/or not determined for the mixture

octanol/water

Auto-ignition temperature : Not applicable and/or not determined for the mixture Thermal decomposition Not applicable and/or not determined for the mixture Viscosity, kinematic : Not applicable and/or not determined for the mixture Explosive properties : Not applicable and/or not determined for the mixture Oxidizing properties : The substance or mixture is not classified as oxidizing.

#### 9.2 Other information

Not applicable and/or not determined for the mixture

### 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

Do not mix with bleach or other chlorinated products – will cause chlorine gas.

#### 10.4 Conditions to avoid

None known.

### 10.5 Incompatible materials

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Metals

Organic materials

**Bases** 

Mild steel Aluminium

#### 10.6 Hazardous decomposition products

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

Carbon oxides

Oxides of phosphorus

## Section: 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

**Product AS SOLD** 

exposure

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

**Product** 

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

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.

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 : Phosphoric acid

LD50 rat: > 2,600 mg/kg

Components

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Acute dermal toxicity : Phosphoric acid

LD50 rabbit: > 2,000 mg/kg

#### **Potential Health Effects**

**Product AS SOLD** 

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

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, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

**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.

#### **Section: 12. ECOLOGICAL INFORMATION**

#### **Product AS SOLD**

# 12.1 Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

**Product** 

Toxicity to fish : no data available

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Toxicity to daphnia and other : no data available

aquatic invertebrates

Toxicity to algae : no data available

Components

: Alcohols, C12-15-branched and linear, ethoxylated propoxylated Toxicity to fish

96 h LC50 Brachydanio rerio (zebrafish): 0.55 mg/l

Components

Toxicity to daphnia and other : Phosphoric acid

aquatic invertebrates

48 h EC50 Daphnia magna (Water flea): > 100 mg/l

Alcohols, C12-15-branched and linear, ethoxylated propoxylated

48 h EC50: 55 mg/l

Components

Toxicity to algae : Phosphoric acid

72 h EC50 Desmodesmus subspicatus (green algae): > 100 mg/l

Alcohols, C12-15-branched and linear, ethoxylated propoxylated

72 h EC50: 0.5 mg/l

## 12.2 Persistence and degradability

**Product** 

Biodegradability : The surfactants contained in the product are biodegradable

according to the requirements of the detergent regulation

648/2004/EC

Components

Biodegradability Phosphoric acid

Result: Not applicable - inorganic

Alcohols, C12-15-branched and linear, ethoxylated propoxylated

Result: 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 Other adverse effects

no data available

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#### 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 : 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.

Contaminated packaging : Dispose of as unused product. Empty containers should be taken

to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local,

state, and federal regulations.

Guidance for Waste Code

selection

: Inorganic 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.

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 : 1805

14.2 UN proper shipping : PHOSPHORIC ACID SOLUTION

name

14.3 Transport hazard : 8

class(es)

14.4 Packing group : III14.5 Environmental hazards : No14.6 Special precautions for : None

user

Air transport (IATA)

14.1 UN number : 1805

14.2 UN proper shipping : Phosphoric acid, solution

name

14.3 Transport hazard : 8

class(es)

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14.4 Packing group : III14.5 Environmental hazards : No14.6 Special precautions for : None

user

Sea transport (IMDG/IMO)

14.1 UN number : 1805

14.2 UN proper shipping : PHOSPHORIC ACID SOLUTION

name

14.3 Transport hazard : 8

class(es)

14.4 Packing group : III14.5 Environmental hazards : No14.6 Special precautions for : None

user

14.7 Transport in bulk

according to Annex II of MARPOL 73/78 and the IBC

Code

## **Section: 15. REGULATORY INFORMATION**

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

: Not applicable.

according to Detergents : less than 5 %: Non-ionic surfactants

Regulation EC 648/2004

#### **National Regulations**

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

Other regulations : The Chemicals (Hazard Information and Packaging for Supply)

Regulations.

The Control of Substances Hazardous to Health Regulations.

Health and Safety at Work Act.

#### 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
Corrosive to metals 1, H290	Calculation method
Skin corrosion 1, H314	Based on product data or assessment
Serious eye damage 1, H318	Based on product data or assessment

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

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects

## Full text of other abbreviations

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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; AICS - Australian Inventory of Chemical Substances; 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; TCSI – Taiwan Chemical Substance Inventory; TRGS – Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB -Very Persistent and Very Bioaccumulative

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.

**Annex: Exposure Scenarios** 

Exposure Scenario: Dishwash and rinse aid product; Automatic process

Life Cycle Stage : Widespread use by professional workers

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

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

Type of Sewage Treatment

: 7.5 kg

Municipal sewage treatment plant

Plant

Contributing scenario controlling worker exposure for:

PROC8a Process category Transfer of substance or preparation (charging/

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

1

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

Skin Protection No **Respiratory Protection** No

Contributing scenario controlling worker exposure for:

PROC3 Use in closed batch process (synthesis or formulation) Process category

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 No **Respiratory Protection** No

**Exposure Scenario: Descaling agent. 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:

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: ERC8a Environmental release Wide dispersive indoor use of processing aids in open systems

category

Daily amount per site : 7.5 kg

Type of Sewage Treatment

Plant

: Municipal sewage treatment plant

# Contributing scenario controlling worker exposure for:

: PROC10 Roller application or brushing Process category

Exposure duration 480 min

Operational conditions and risk management measures : Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Respiratory Protection No

Skin Protection : Yes: See Section 8

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