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

1.1 Product identifier

Product name : APEX PRESOAK

Product code : 116850E

Use of the :

Substance/Mixture

Presoak

Substance type: : Mixture

For professional users only.

Product dilution information : 0.2 % - 0.3 %

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

Identified uses : Dishwash product. Semi-Automatic 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 : 24.07.2019 Version : 1.5

. 1.5

Section: 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Product AS SOLD

Eye irritation, Category 2 H319

Product AT USE DILUTION

Not a hazardous substance or mixture.

2.2 Label elements

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Labelling (REGULATION (EC) No 1272/2008)

Product AS SOLD Hazard pictograms

Signal Word : Warning

Hazard Statements : H319 Causes serious eye irritation.

Product AT USE DILUTION

Not a hazardous substance or mixture.

Additional Labelling: **Product AS SOLD**

mixtures

Special labelling of certain : Contains: Limonene, May produce an allergic reaction.

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.	Classification	Concentration:		
	EC-No.	REGULATION (EC) No 1272/2008	[%]		
	REACH No.	,			
Sodium Carbonate	497-19-8	Eye irritation Category 2; H319	>= 50 - <= 100		
	207-838-8				
	01-2119485498-19				
Fattyalcohol ethoxylates	68213-23-0	Acute aquatic toxicity Category 1; H400	>= 1 - < 2.5		
=/< C15 and =/< 5EO	500-201-8	Chronic aquatic toxicity Category 3;			
	01-2119489387-20	H412			
Limonene	5989-27-5	Nota C Flammable liquids Category 3;	>= 0.1 - < 0.25		
	227-813-5	H226			
	01-2119529223-47	Skin irritation Category 2; H315			
		Skin sensitization Category 1; H317			
		Acute aquatic toxicity Category 1; H400			
		Chronic aquatic toxicity Category 1;			
		H410			
Substances with a workplace exposure limit :					
carbonic acid, calcium salt	471-34-1		>= 0.1 - < 0.25		
(1:1)	207-439-9				
Cellulose ethers	9004-34-6		>= 0.1 - < 0.25		
	232-674-9				

Product AT USE DILUTION

Remarks : No hazardous ingredients

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

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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.

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.

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.

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) Oxides of phosphorus

5.3 Advice for firefighters

Special protective equipment : Use personal protective equipment.

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for firefighters

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 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

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.

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. Use only with adequate

ventilation. Wash hands thoroughly after handling. In case of

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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.

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

in suitable labeled containers.

Storage temperature : 0 °C to 50 °C

Product AT USE DILUTION

Requirements for storage areas and containers

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

in suitable labeled containers.

7.3 Specific end uses

Product AS SOLD

Specific use(s) : Dishwash product. Semi-Automatic 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
carbonic acid, calcium salt (1:1)	471-34-1		TWA (Respirable dust)	4 mg/m3	UKCOSSTD
Further information	15	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust			
	44	The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit.			
	45	Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'.			
	46	Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that			

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		penetrates to the gas exchange region of the lung. Fuller definitions and		
	47	explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the		
		relevant limits should be complied with.		
	2	Where no specific short-term exposure limit is listed, a figure three times the		
		long-term exposure should be used TWA (Inhalable 10 mg/m3 UKCOSSTD		
		dust)		
Further information	15	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken		
		in accordance with the methods described in MDHS14/3 General methods for		
	1	sampling and gravimetric analysis of respirable and inhalable dust		
	44	The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10		
		mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable		
		dust. This means that any dust will be subject to COSHH if people are		
		exposed above these levels. Some dusts have been assigned specific WELs		
	45	and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The		
		behaviour, deposition and fate of any particular particle after entry into the		
		human respiratory system and the body response that it elicits, depend on the		
		nature and size of the particle. HSE distinguishes two size fractions for limit- setting purposes termed 'inhalable' and 'respirable'.		
	46	Inhalable dust approximates to the fraction of airborne material that enters the		
		nose and mouth during breathing and is therefore available for deposition in		
		the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and		
		explanatory material are given in MDHS14/3.		
	47	Where dusts contain components that have their own assigned WEL, all the		
		relevant limits should be complied with.		
	2	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used		
Cellulose ethers	9004-34			
Further information	15	For the purposes of these limits, respirable dust and inhalable dust are those		
		fractions of airborne dust which will be collected when sampling is undertaken		
		in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust		
	44	The COSHH definition of a substance hazardous to health includes dust of		
		any kind when present at a concentration in air equal to or greater than 10		
		mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable		
		dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs		
		and exposure to these must comply with the appropriate limit.		
	45	Most industrial dusts contain particles of a wide range of sizes. The		
		behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the		
		nature and size of the particle. HSE distinguishes two size fractions for limit-		
	10	setting purposes termed 'inhalable' and 'respirable'.		
	46	Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in		
		the respiratory tract. Respirable dust approximates to the fraction that		
		penetrates to the gas exchange region of the lung. Fuller definitions and		
	47	explanatory material are given in MDHS14/3.		
	47	Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with.		
	2	Where no specific short-term exposure limit is listed, a figure three times the		
		long-term exposure should be used		
		TWA (Inhalable 10 mg/m3 UKCOSSTD dust)		
Further information				
i utiliei illioilliation	15	For the purposes of these limits, respirable dust and inhalable dust are those		
Tuttiei iiiloiiilatioii	15	fractions of airborne dust which will be collected when sampling is undertaken		
Tuttiei illioittation	15			

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		any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit.		
	45	Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'.		
	46	Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3.		
	47	Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with.		
		STEL (Inhalable 20 mg/m3 UKCOSSTD dust)		
Further information	15			
	44	The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit.		
	45	Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'.		
	46	Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3.		
	47	Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with.		

DNEL

Sodium Carbonate	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 10 mg/m3
		End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 10 mg/m3

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.

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) : No special protective equipment required.

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: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

Product AS SOLD

Product AT USE DILUTION

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Appearance solid liquid Colour blue blue Odour citrus citrus

Hq : 10.6 - 11.4, 1 % 10.4 - 10.7

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

: > 100 °C

Evaporation rate : Not applicable and/or not determined for the mixture Flammability (solid, gas) : Not applicable and/or not determined for the mixture Upper explosion limit : Not applicable and/or not determined for the mixture 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 : 1.2 - 1.7

Water solubility : Not applicable and/or not determined for the mixture Solubility in other solvents : Not applicable and/or not determined for the mixture 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

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

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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) Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product AS SOLD

Information on likely routes of : Eye contact, Skin contact

exposure

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

: Sodium Carbonate Acute oral toxicity

LD50 rat: 2,800 mg/kg

Fattyalcohol ethoxylates =/< C15 and =/< 5EO

LD50 : > 5,050 mg/kg

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Test substance: Information given is based on data obtained from

similar substances.

Limonene

LD50 rat: 4,400 mg/kg

carbonic acid, calcium salt (1:1)

LD50 rat: > 2,000 mg/kg

Components

Acute dermal toxicity : Fattyalcohol ethoxylates =/< C15 and =/< 5EO

LD50 : > 2,000 mg/kg

Limonene

LD50 rabbit: > 5,000 mg/kg

carbonic acid, calcium salt (1:1)

LD50 rat: > 2,000 mg/kg

Potential Health Effects

Product AS SOLD

Eyes : Causes serious eye irritation.

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 : 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.

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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 Toxicity to daphnia and other : no data available

aquatic invertebrates

Toxicity to algae : no data available

Components

: Sodium Carbonate Toxicity to fish

96 h LC50 Lepomis macrochirus (Bluegill sunfish): 300 mg/l

Fattyalcohol ethoxylates =/< C15 and =/< 5EO

96 h LC50: 0.876 mg/l

Test substance: Information given is based on data obtained from

similar substances.

Components

Toxicity to daphnia and other : Sodium Carbonate

aquatic invertebrates

48 h EC50 Ceriodaphnia (water flea): 213.5 mg/l

Fattyalcohol ethoxylates =/< C15 and =/< 5EO

48 h EC50: 0.53 mg/l

Test substance: Information given is based on data obtained from

similar substances.

carbonic acid, calcium salt (1:1) 48 h EC50 Daphnia: > 100 mg/l

Components

Fattyalcohol ethoxylates =/< C15 and =/< 5EO Toxicity to algae

72 h EC50: 0.41 mg/l

Test substance: Information given is based on data obtained from

similar substances. 72 h NOEC: 0.31 mg/l

Test substance: Information given is based on data obtained from

similar substances.

12.2 Persistence and degradability

Product

: The surfactants contained in the product are biodegradable Biodegradability

according to the requirements of the detergent regulation

648/2004/EC

Components

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Biodegradability : Sodium Carbonate

Result: Not applicable - inorganic

Fattyalcohol ethoxylates =/< C15 and =/< 5EO

Result: Readily biodegradable.

Limonene

Result: Readily biodegradable.

carbonic acid, calcium salt (1:1) Result: Not applicable - inorganic

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

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.

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Product AT USE DILUTION

: Diluted product can be flushed to sanitary sewer. Product

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 : Not dangerous goods : Not dangerous goods

14.2 UN proper shipping

name

14.3 Transport hazard : Not dangerous goods

class(es)

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

user

Air transport (IATA)

14.1 UN number : Not dangerous goods 14.2 UN proper shipping : Not dangerous goods

name

14.3 Transport hazard : Not dangerous goods

class(es)

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

user

Sea transport (IMDG/IMO)

14.1 UN number : Not dangerous goods 14.2 UN proper shipping : Not dangerous goods

name

14.3 Transport hazard : Not dangerous goods

class(es)

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

user

14.7 Transport in bulk : Not dangerous goods 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

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mixture

according to Detergents : 5 % or over but less than 15 %: Phosphates

Regulation EC 648/2004 less than 5 %: Phosphonates, Non-ionic surfactants

Other constituents: Enzymes, Perfumes

Allergens: Limonene Citral

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
Eye irritation 2, H319	Calculation method

Full text of H-Statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

Causes serious eye irritation. H319 H400 Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects. H410 Harmful to aquatic life with long lasting effects. H412

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; 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

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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

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.

Annex: Exposure Scenarios

Exposure Scenario: Dishwash product. Semi-Automatic 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 : **ERC8a** Wide dispersive indoor use of processing aids in open

systems

Daily amount per site : 7.5 kg

Type of Sewage Treatment : Municipal sewage treatment plant

Plant

category

Contributing scenario controlling worker exposure for:

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

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discharging) from/ to vessels/ large containers at nondedicated 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 : Yes: See Section 8

Respiratory Protection : No

Contributing scenario controlling worker exposure for:

Process category : **PROC1** Use in closed process, no likelihood of exposure

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

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