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

#### 1.1 Product identifier

Product name : APEX ULTRA

Product code : 116637E

Use of the

Substance/Mixture

Machine Warewashing Detergent

Substance type: : Mixture

For professional users only.

Product dilution information : 0.1 % - 0.25 %

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

Identified uses : Dishwash and rinse aid product; 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

number

: Food & Beverage, Institutional, Agriculture, Textile Hygiene:

Northwich: +44 (0)1606 74488

Healthcare Leeds: +44 (0)113 232 2480 Healthcare Swansea: +44 (0)1235 239670

Poison Information Centre

telephone number

: Not Available

Date of Compilation/Revision : 26.02.2016 version : 1.0

## 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 Chronic aquatic toxicity, Category 2 H411

116637E 1 / 16

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

Not a hazardous substance or mixture.

**Classification (67/548/EEC, 1999/45/EC)** 

**Product AS SOLD** 

Xi; IRRITANT R36 N; DANGEROUS FOR THE ENVIRONMENT R51/53

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

The product does not need to be labelled in accordance with EC directives or respective national laws.

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

#### 2.2 Label elements

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

**Product AS SOLD** 

Hazard pictograms





Signal Word : Warning

Hazard Statements : H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:** 

P273 Avoid release to the environment.

Hazardous components which must be listed on the label: Sodium Carbonate(soda)

## **Product AT USE DILUTION**

Not a hazardous substance or mixture.

## 2.3 Other hazards

## **Product AS SOLD**

Mixing this product with acid or ammonia releases chlorine gas.

## Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

Product AS SOLD Hazardous components

Chemical Name CAS-No. Classification Classification	on Concentration:
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116637E 2 / 16

	EC-No. REACH No.	(67/548/EEC)	(REGULATION (EC) No 1272/2008)	[%]
Sodium Carbonate(soda)	497-19-8 207-838-8 01-2119485498-19	Xi; R36	Eye irritation Category 2; H319	>= 30 - < 50
Phosphonates	3794-83-0 223-267-7 01-2119510382-52	Xn-Xi; R22- R36	Acute toxicity Category 4; H302 Eye irritation Category 2; H319	>= 5 - < 10
Sodium dichloro-s- triazinetrione dihydrate	51580-86-0 220-767-7 01-2119489371-33	Xn-N; R22- R31-R36/37- R50/53	Acute toxicity Category 4; H302 Eye irritation Category 2; H319 Specific target organ toxicity - single exposure Category 3; H335 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 1; H410	>= 3 - < 5
Alcohol ethoxylate	68439-51-0	Xi; R41-R38	Skin irritation Category 2; H315 Serious eye damage Category 1; H318	>= 2.5 - < 3
oxirane, methyl-, polymer with oxirane	9003-11-6	Xn; R20	Acute toxicity Category 4; H332	>= 1 - < 2.5

## **Product AT USE DILUTION**

Remarks : No hazardous ingredients

For the full text of the R-phrases mentioned in this Section, see Section 16. 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.

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.

116637E 3 / 16

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

: Decomposition products may include the 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 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**

116637E 4/16

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). 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 : Avoid contact with skin and eyes. Use only with adequate

ventilation. Wash hands thoroughly after handling. Mixing this

product with acid or ammonia releases 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.

**Product AT USE DILUTION** 

Advice on safe handling : Wash hands after han

: 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.

116637E 5 / 16

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 and rinse aid product; 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
chlorine	7782-50-5	STEL	0.5 ppm 1.5 mg/m3	UKCOSSTD

Contains no substances with occupational exposure limit values.

#### **DNEL**

Sodium Carbonate(soda)		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.

#### 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) : No special protective equipment required.

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

Skin and body protection (EN : No special protective equipment required.

14605)

116637E 6 / 16

Respiratory protection (EN

143, 14387)

: No personal respiratory protective equipment normally required.

## **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)

: No personal respiratory protective equipment normally required.

#### **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** : solid liquid Colour : white colourless Odour : Chlorine Chlorine 10.9 - 11.0 pΗ : 10.85, 1 %

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 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 3.2 - 3.6Water solubility : soluble

116637E 7/16

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

Partition coefficient: n-

octanol/water

: Not applicable and/or not determined for the mixture

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 : Yes

#### 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

Mixing this product with acid or ammonia releases chlorine gas.

#### 10.4 Conditions to avoid

None known.

#### 10.5 Incompatible materials

Acids

Bases

## 10.6 Hazardous decomposition products

Decomposition products may include the following materials:

Carbon oxides

nitrogen oxides (NOx)

Sulphur oxides

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**

116637E 8 / 16

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

Acute inhalation toxicity : 4 h Acute toxicity estimate : > 5 mg/l

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 : Sodium Carbonate(soda)

LD50 rat: 2,800 mg/kg

Phosphonates LD50 rat: 940 mg/kg

Sodium dichloro-s-triazinetrione dihydrate

LD50 rat: 1,823 mg/kg

Alcohol ethoxylate LD50 rat: > 2,000 mg/kg

Components

Acute inhalation toxicity : oxirane, methyl-, polymer with oxirane

4 h LD50 rat: 1 mg/l

Components

Acute dermal toxicity : Phosphonates

LD50 rabbit: > 1,650 mg/kg

Sodium dichloro-s-triazinetrione dihydrate

LD50 rat: > 5,000 mg/kg

Alcohol ethoxylate

LD50 rabbit: 2,290 mg/kg

116637E 9 / 16

#### **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.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

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

# Product AS SOLD 12.1 Ecotoxicity

: Toxic to aquatic life with long lasting effects.

**Product** 

Toxicity to fish : no data available

Toxicity to daphnia and other : no data available

aquatic invertebrates

**Environmental Effects** 

Toxicity to algae : no data available

116637E 10 / 16

Components

Toxicity to fish : Sodium Carbonate(soda)

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

Alcohol ethoxylate 96 h LC50: > 1 mg/l

oxirane, methyl-, polymer with oxirane

96 h LC50 Fish: > 100 mg/l

Components

Toxicity to daphnia and other : Sodium Carbonate(soda)

aquatic invertebrates

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

**Phosphonates** 

48 h EC50 Daphnia: 167 mg/l

Sodium dichloro-s-triazinetrione dihydrate

48 h EC50 Daphnia: 0.196 mg/l

## 12.2 Persistence and degradability

#### **Product**

no data available

#### Components

Biodegradability : Sodium Carbonate(soda)

Result: Not applicable - inorganic

**Phosphonates** 

Result: Poorly biodegradable

Sodium dichloro-s-triazinetrione dihydrate

Result: Readily biodegradable.

Alcohol ethoxylate

Result: Readily biodegradable.

oxirane, methyl-, polymer with oxirane

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.

116637E 11/16

#### 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 : The product should not be allowed to enter drains, water courses

> or the soil. 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.

European Waste Catalogue : 200115\* - alkalines

**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 : 3077

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, 14.2 UN proper shipping

name

(troclosene sodium, dihydrate, Alcohol ethoxylate)

14.3 Transport hazard : 9

class(es)

: 111 14.4 Packing group 14.5 Environmental hazards : Yes

user

14.6 Special precautions for : None

Air transport (IATA)

14.1 UN number

14.2 UN proper shipping : Environmentally hazardous substance, solid, n.o.s.

name

(troclosene sodium, dihydrate, Alcohol ethoxylate)

14.3 Transport hazard : 9

116637E 12/16

class(es)

14.4 Packing group : III 14.5 Environmental hazards : Yes

14.6 Special precautions for

user

: None

Sea transport (IMDG/IMO)

14.1 UN number : 3077

14.2 UN proper shipping : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

name N.O.S.

(troclosene sodium, dihydrate, Alcohol ethoxylate)

14.3 Transport hazard

class(es)

14.4 Packing group : III 14.5 Environmental hazards : Yes

14.6 Special precautions for : None

user

14.7 Transport in bulk : Not applicable.

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

according to Detergents Regulation EC 648/2004 : 15 % or over but less than 30 %: Phosphates 5 % or over but less than 15 %: Phosphonates

less than 5 %: Non-ionic surfactants, Chlorine-based bleaching

agents

#### **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

This product contains substances for which Chemical Safety Assessments are still required.

#### **Section: 16. OTHER INFORMATION**

#### **Full text of R-Phrases**

R20 Harmful by inhalation. R22 Harmful if swallowed.

R31 Contact with acids liberates toxic gas.

R36 Irritating to eyes.

R36/37 Irritating to eyes and respiratory system.

R38 Irritating to skin.

116637E 13 / 16

R41 Risk of serious damage to eyes.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

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

H302	Harmful if swallowed.
H315	Causes skin irritation.
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.
H410	Very toxic 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; 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

116637E 14 / 16

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**

#### **DPD+ Substances:**

The following substances are the lead substances that contribute to the mixture Exposure Scenario according to the DPD+ Rule:

Route	Substance	CAS-No.	EINECS-No.
Ingestion	Phosphonates	3794-83-0	223-267-7
Inhalation	Sodium dichloro-s-triazinetrione dihydrate	51580-86-0	220-767-7
Dermal	Alcohol ethoxylate	68439-51-0	
Eyes	Sodium Carbonate(soda) Alcohol ethoxylate	497-19-8 68439-51-0	207-838-8
aquatic environment	Sodium dichloro-s-triazinetrione dihydrate	51580-86-0	220-767-7

#### Physical properties DPD+ Substances:

Substance	Vapour pressure	Water solubility	Pow	Molar Mass
Sodium Carbonate(soda)		212.5 g/l		106 g/mol

To calculate if your downstream Operating Conditions and Risk management Measures are safe, please calculate your risk factor at the website below:

#### www.ecetoc.org/tra

Short title of Exposure : Dishwash and rinse aid product; Automatic process

Scenario

**Use descriptors** 

Main User Groups : Professional uses: Public domain (administration, education,

entertainment, services, craftsmen)

Sectors of end-use : SU22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Process categories : PROC2: Use in closed, continuous process with occasional

controlled exposure

**PROC8b:** Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

Product categories : **PC35:** Washing and cleaning products (including solvent based

116637E 15 / 16

# SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

# **APEX ULTRA**

products)

Environmental Release

Categories

: **ERC8a:** Wide dispersive indoor use of processing aids in open

systems

116637E 16 / 16