

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

#### **Assert Lemon**

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

#### 1.1 Product identifier

Product name : Assert Lemon

UFI : Q3S5-0CY8-Y00T-SUXV

Product code : 110551E

Use of the

Substance/Mixture

Manual Warewashing Detergent

Substance type: : Mixture

For professional users only.

Product dilution information : 0.08 % - 0.12 %

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

Identified uses : Dishwash product. Manual process

Recommended restrictions

on use

: Reserved for industrial and professional use.

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

Company : Ecolab Deutschland GmbH

Ecolab-Allee 1

40789 Monheim am Rhein, Germany +49 (0)2173 599 1000

OfficeService.DEDUS@ecolab.com

# 1.4 Emergency telephone number

Emergency telephone

number

: +32-(0)3-575-5555 Trans-european, German speaking, 24/7

or +49 32 212249407 German speaking, 24/7

Poison Information Centre

telephone number

: +49 (0)551 38318854

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# **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

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

Not a hazardous substance or mixture.

# 2.2 Label elements

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

**Product AS SOLD** 

Hazard pictograms :

Signal Word : Warning

Hazard Statements : H319 Causes serious eye irritation.

Precautionary Statements : **Prevention:** 

P280e Wear eye protection/face protection.

# **Product AT USE DILUTION**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

# 2.3 Other hazards

# **Product AS SOLD**

None known.

# Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.2 Mixtures

# Product AS SOLD Hazardous components

Chemical Name	CAS-No. EC-No. REACH No.	Classification REGULATION (EC) No 1272/2008	Concentration : [%]
Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt	68891-38-3 500-234-8 01-2119488639-16	Skin irritation Category 2; H315 Serious eye damage Category 1; H318 Chronic aquatic toxicity Category 3; H412  Serious eye damage/eye irritation Category 1 10 - 100 % Serious eye damage/eye irritation Category 2A > 5 - < 10 %	>= 3 - < 5
benzenesulfonic acid, C10-13- alkyl derivs., sodium salt	68411-30-3 270-115-0 01-2119489428-22	Acute toxicity Category 4; H302 Skin irritation Category 2; H315 Serious eye damage Category 1; H318 Chronic aquatic toxicity Category 3; H412	>= 3 - < 5
Substances with a workp	•		
Sodium benzoate	532-32-1	Eye irritation Category 2; H319	>= 0.5 - < 1

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# **Assert Lemon**

208-534-8 01-2119460683-35

**Product AT USE DILUTION** 

Remarks : No hazardous ingredients

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

**Section: 4. FIRST AID MEASURES** 

#### 4.1 Description of first aid measures

**Product AS SOLD** 

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

at least 15 minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Get medical attention.

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

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Sulphur oxides metal oxides

#### 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 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**

: 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, 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.

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#### 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 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. In case of mechanical malfunction, or

if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE). For personal protection see section

8.

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

product.

# 7.2 Conditions for safe storage, including any incompatibilities

**Product AS SOLD** 

Requirements for storage areas and containers

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

in suitable labeled containers.

Storage temperature : 0 °C to 40 °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. Manual process

# Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### **Product AS SOLD**

# **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Sodium benzoate	532-32-1	AGW (Inhalable fraction)	10 mg/m3 (benzoate)	TRGS 900

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Further information	Н	Skin absorption
	Υ	When there is compliance with the OEL and biological tolerance values, there
		is no risk of harming the unborn child

DNEL		
Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 175 mg/m3	
	End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 2750 mg/m3	
	End Use: Workers Exposure routes: Dermal Potential health effects: Long-term local effects Value: 0.132 mg/m3	
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 52 mg/m3	
	End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 1650 mg/m3	
	End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term local effects Value: 0.079 mg/m3	
	End Use: Consumers Exposure routes: Oral Potential health effects: Long-term systemic effects Value: 15 mg/m3	
benzenesulfonic acid, C10-13- alkyl derivs., sodium salt	End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 85 mg/cm2	
	End Use: Workers Exposure routes: Dermal Potential health effects: Long-term local effects Value: 85 mg/cm2	
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 6 mg/m3	
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 6 mg/m3	

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PNEC		
Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt	:	Fresh water Value: 0.24 mg/l
		Marine water Value: 0.024 mg/l
		Sewage treatment plant Value: 10000 mg/l
		Fresh water sediment Value: 0.917 mg/kg
		Marine sediment Value: 0.092 mg/kg
		Soil Value: 7.5 mg/kg
benzenesulfonic acid, C10-13- alkyl derivs., sodium salt	:	
anyr denvel, eddiam ean		Value: 0.268 mg/l
		Marine water Value: 0.0268 mg/l
		Intermittent use/release Value: 0.0167 mg/l
		Fresh water sediment Value: 8.1 mg/kg
		Marine sediment Value: 8.1 mg/kg
		Sewage treatment plant Value: 3.43 mg/l

# 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) : Safety glasses with side-shields

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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.

# 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

Physical state : liquid liquid

Colour : yellow colourless

Odour : citrus citrus

pH : 4.5 - 5.5, 100 % 7.4 - 7.5

Particle characteristics

Assessment : not applicable not applicable

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Particle size : not applicable not applicable Particle Size Distribution not applicable not applicable **Dustiness** not applicable not applicable Specific surface area : not applicable not applicable Surface charge/Zeta : not applicable not applicable

potential

Shape not applicable not applicable Crystallinity not applicable not applicable Surface treatment not applicable not applicable

/Coatings

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 Boiling point, initial boiling Not applicable and/or not determined for the mixture

point and boiling range

Evaporation rate : Not applicable and/or not determined for the mixture **Flammability** 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

Density and / or relative

density

: 0.98 - 1.08

Water solubility : soluble

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 (log value) 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 : 437.680 mm2/s (40 °C)

Explosive properties : Not applicable and/or not determined for the mixture : The substance or mixture is not classified as oxidizing. Oxidizing properties

9.2 Other information

VOC : < 0.01 %VOC content excluding water</p>

< 0.01 %VOC content valid only for coating materials used on

wood surfaces

# Section: 10. STABILITY AND REACTIVITY

# **Product AS SOLD**

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# 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

# 10.2 Chemical stability

Stable under normal conditions.

# 10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

#### 10.4 Conditions to avoid

None known.

# 10.5 Incompatible materials

None known.

#### 10.6 Hazardous decomposition products

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

# Section: 11. TOXICOLOGICAL INFORMATION

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

**Product AS SOLD** 

exposure

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

**Product** 

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

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

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

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

Serious eye damage/eye

irritation

: Eye irritation

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.

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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 : Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt LD50

rat: 3,350 mg/kg

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

1,080 mg/kg

Sodium benzoate LD50 rat: 2,100 mg/kg

Components

Acute dermal toxicity : Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt LD50

rat: 8,000 mg/kg

Sodium benzoate LD50 rabbit: 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.

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Product AT USE DILUTION

Eve 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.

#### 11.2 Information on other hazards

**Endocrine disrupting** 

properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

**Further information** no data available

# Section: 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

**Product AS SOLD** 

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

**Product AT USE DILUTION** 

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

**Product AS SOLD** 

**Product** 

: no data available Toxicity to fish Toxicity to daphnia and other : no data available

aquatic invertebrates

Toxicity to algae : no data available

Components

Toxicity to fish : Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt

96 h LC50 Danio rerio (zebra fish): 7.1 mg/l

benzenesulfonic acid, C10-13- alkyl derivs., sodium salt 96 h LC50 Lepomis macrochirus (Bluegill sunfish): 1.67 mg/l

Components

aquatic invertebrates

Toxicity to daphnia and other : Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt

48 h EC50 Daphnia magna (Water flea): 7.4 mg/l

benzenesulfonic acid, C10-13- alkyl derivs., sodium salt 48 h LC50 Daphnia magna (Water flea): 2.4 mg/l

Components

Toxicity to algae : Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt

72 h EC50 Desmodesmus subspicatus (green algae): 27.7 mg/l

benzenesulfonic acid, C10-13- alkyl derivs., sodium salt

96 h EC50 Pseudokirchneriella subcapitata (green algae): 29 mg/l

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Sodium benzoate 72 h EC50: 24.8 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 : Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt

Result: Readily biodegradable.

benzenesulfonic acid, C10-13- alkyl derivs., sodium salt

Result: Readily biodegradable.

Sodium benzoate

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 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

# 12.7 Other adverse effects

no data available

# Section: 13. DISPOSAL CONSIDERATIONS

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

#### 13.1 Waste treatment methods

**Product AS SOLD** 

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

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

Contaminated packaging

: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

Guidance for Waste Code selection

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

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

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

permit.

Contaminated packaging : Dispose of in accordance with local, state, and federal regulations.

# Section: 14. TRANSPORT INFORMATION

# **Product AS SOLD**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

# Land transport (ADR/ADN/RID)

14.1 UN number or ID

number

: Not dangerous goods

14.2 UN proper shipping

name

: Not dangerous goods

14.3 Transport hazard

: Not dangerous goods

class(es)

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

user

#### Air transport (IATA)

14.1 UN number or ID

: Not dangerous goods

number

14.2 UN proper shipping

: Not dangerous goods

name

14.3 Transport hazard

: Not dangerous goods

class(es)

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

user

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## Sea transport (IMDG/IMO)

14.1 UN number or ID

number

14.2 UN proper shipping

name

14.3 Transport hazard

class(es)

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

user

14.7 Maritime transport in bulk according to IMO

instruments

: Not dangerous goods

: Not dangerous goods

: Not dangerous goods

: Not dangerous goods

# **Section: 15. REGULATORY INFORMATION**

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

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

Regulation EC 648/2004 less than 5 %: Amphoteric surfactants

Other constituents: Perfumes

Preservation agents: Sodium benzoate

Allergens: Citral

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council

on the control of majoraccident hazards involving dangerous substances.

Candidate List of Substances : Not applicable.

of Very High Concern for

Authorisation

Not applicable.

# **National Regulations**

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

Hazard class for water : WGK 2

Classification according to AwSV, Annex 1

German storage class : 12

# 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

- 1000 daile deba to delite the blacement debetang to 112002711011 (20) ite			
	Classification	Justification	
	Eye irritation 2, H319	Based on product data or assessment	

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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

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

#### **Further information**

Prepared by : Regulatory Affairs

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

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

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materials or in any process, unless specified in the text.

**Annex: Exposure Scenarios** 

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

Life Cycle Stage : Widespread use by professional workers

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

products)

Contributing scenario controlling environmental exposure for:

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

category systems

Daily amount per site : 7.5 kg

Type of Sewage Treatment : Municipal sewage treatment plant

Plant

Contributing scenario controlling worker exposure for:

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

Exposure duration : 480 min

Operational conditions and : Indoor risk management measures

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection : see section 8

Respiratory Protection : see section 8

Contributing scenario controlling worker exposure for:

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

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

dedicated facilities

Exposure duration : 60 min

Operational conditions and risk management measures

nd : Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection : see section 8

Respiratory Protection : see section 8

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