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

## 1.1 Product identifier

Product name : KAY ESTEEM WAREWASHING DETERGENT

UFI : GHMV-8A52-A007-V96S

Product code : 109952E

Use of the

Substance/Mixture

Machine Warewashing Detergent

Substance type: : Mixture

For professional users only.

Product dilution information : 0.1 % - 0.15 %

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

Identified uses : Dishwash and rinse aid product, Automatic process with PPE

Recommended restrictions

on use

: Reserved for industrial and professional use.

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

Company : KAY BV

Havenlaan 4

B-3980 Tessenderlo, Belgium +32 13 67 06 90 (Belgium)

BEKAYcustomerservice@ecolab.com

Ecolab Deutschland GmbH

Ecolab-Allee 1

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

BEKAYcustomerservice@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

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

**Product AS SOLD** 

Skin corrosion, Category 1 H314 Serious eye damage, Category 1 H318

## **Product AT USE DILUTION**

Not a hazardous substance or mixture.

#### 2.2 Label elements

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

**Product AS SOLD** 

Hazard pictograms

Signal Word : Danger

Hazard Statements : H314 Causes severe skin burns and eye damage.

Precautionary Statements : Prevention:

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P310

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

all contaminated clothing. Rinse skin with water

or shower.

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

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

Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label: disodium metasilicate

## **Product AT USE DILUTION**

Not a hazardous substance or mixture.

## 2.3 Other hazards

## **Product AS SOLD**

None known.

## Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2 Mixtures

# Product AS SOLD Hazardous components

Chemical Name	CAS-No.	Classification	Concentration
	EC-No.	REGULATION (EC) No 1272/2008	: [%]
	REACH No.	,	
disodium metasilicate	6834-92-0	Skin corrosion Category 1B; H314	>= 5 - < 10

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229-912-9 Specific target organ toxicity - single exposure Category 3; H335

**Product AT USE DILUTION** 

Remarks : No hazardous ingredients

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

**Section: 4. FIRST AID MEASURES** 

#### 4.1 Description of first aid measures

**Product AS SOLD** 

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

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

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.

Wash clothing before reuse. Thoroughly clean shoes before

reuse. Get medical attention immediately.

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

anything by mouth to an unconscious person. If conscious, give 2

glasses of water. Get medical attention immediately.

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

if symptoms occur.

**Product AT USE DILUTION** 

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

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

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

If inhaled : Get medical attention if symptoms occur.

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

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

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

Treatment : Treat symptomatically.

## **Section: 5. FIREFIGHTING MEASURES**

## **Product AS SOLD**

#### 5.1 Extinguishing media

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

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

## 5.2 Special hazards arising from the substance or mixture

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Specific hazards during

firefighting

: Not flammable or combustible.

Hazardous combustion

products

: Depending on combustion properties, decomposition products

may include following materials:

Not applicable.

5.3 Advice for firefighters

for firefighters

Special protective equipment : Use personal protective equipment.

Further information : Fire residues and contaminated fire extinguishing water must be

disposed of in accordance with local regulations. In the event of

fire and/or explosion do not breathe fumes.

## Section: 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

#### **Product AS SOLD**

Advice for non-emergency personnel

: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Advice for emergency

responders

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

materials.

## **Product AT USE DILUTION**

Advice for non-emergency

personnel

Advice for emergency

responders

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

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

materials.

## 6.2 Environmental precautions

**Product AS SOLD** 

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** 

Stop leak if safe to do so. Contain spillage, and then collect with Methods for cleaning up

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

Methods for cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

#### 6.4 Reference to other sections

See Section 1 for emergency contact information.

For personal protection see section 8.

See Section 13 for additional waste treatment information.

## Section: 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

## **Product AS SOLD**

Advice on safe handling

: Do not ingest. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not breathe spray, vapour. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal

Protective Equipment (PPE).

Hygiene measures

: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

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

Advice on safe handling

: Wash hands after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE). For personal protection see section

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

: Do not store near acids. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

: 0 °C to 40 °C Storage temperature

#### **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 with PPE

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## Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

#### **Product AS SOLD**

Contains no substances with occupational exposure limit values.

#### **DNEL**

disodium metasilicate	:	End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 1.49 mg/kg	
		End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 6.22 mg/m3	

#### **PNEC**

INCO		
disodium metasilicate	:	Fresh water
		Value: 7.5 mg/l
		Marine water
		Value: 1 mg/l
		Intermittent use/release
		Value: 7.5 mg/l
		Sewage treatment plant
		Value: 1000 mg/l

## 8.2 Exposure controls

## Product AS SOLD

Appropriate engineering controls

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

## Individual protection measures

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

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

Wash face, hands and any exposed skin thoroughly after

handling. Provide suitable facilities for quick drenching or flushing

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

Eye/face protection (EN 166) : Safety goggles

Face-shield

Hand protection (EN 374) : Recommended preventive skin protection

Gloves Nitrile rubber butyl-rubber

Breakthrough time: 1 – 4 hours

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

manufacturer/distributor for advise).

Gloves should be discarded and replaced if there is any indication

of degradation or chemical breakthrough.

Skin and body protection

(EN 14605)

: Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing including

appropriate safety shoes

Respiratory protection (EN

143, 14387)

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

respiratory protection equipment meeting EU

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

or procedures of work organization.

# Product AT USE DILUTION Appropriate engineering controls

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 : odourless slight

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pH : 13.8 - 14.0, 100 % 9.5 - 10.5

Particle characteristics

Assessment not applicable not applicable 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

octanol/water (log value)

density

: 1.3 - 1.4

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

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

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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

Acids

#### 10.6 Hazardous decomposition products

Depending on combustion properties, decomposition products may include following materials: Not applicable.

## 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 : 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.

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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 : disodium metasilicate LD50 rat: 500 mg/kg

**Potential Health Effects** 

**Product AS SOLD** 

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

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

Chronic Exposure : Health injuries are not known or expected under normal use.

**Product AT USE DILUTION** 

Eyes : Health injuries are not known or expected under normal use.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

## Experience with human exposure

**Product AS SOLD** 

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

**Product AT USE DILUTION** 

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

#### 11.2 Information on other hazards

Further information : no data available

## Section: 12. ECOLOGICAL INFORMATION

## 12.1 Toxicity

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**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** 

Toxicity to fish : no data available

Toxicity to daphnia and other : no data available

aquatic invertebrates

Toxicity to algae : no data available

Components

Toxicity to fish : disodium metasilicate

96 h LC50 Fish: 210 mg/l

## 12.2 Persistence and degradability

#### **Product**

no data available

Components

Biodegradability : disodium metasilicate

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 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**

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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 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

: 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

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 : 3266

number

14.2 UN proper shipping

: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

name

(sodium metasilicate)

14.3 Transport hazard : 8

class(es)

14.4 Packing group : III
14.5 Environmental hazards : No
14.6 Special precautions for : None

user

Air transport (IATA)

14.1 UN number or ID : 3266

number

14.2 UN proper shipping : Corrosive liquid, basic, inorganic, n.o.s.

name

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(sodium metasilicate)

14.3 Transport hazard : 8

class(es)

14.4 Packing group : 111 14.5 Environmental hazards : No 14.6 Special precautions for : None

Sea transport (IMDG/IMO)

14.1 UN number or ID : 3266

number

14.2 UN proper shipping

name

: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

(sodium metasilicate)

14.3 Transport hazard

class(es)

14.4 Packing group : 111 : No 14.5 Environmental hazards : None 14.6 Special precautions for

user

14.7 Maritime transport in bulk according to IMO

instruments

: Not applicable.

: 8

## **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

Seveso III: Directive : Not applicable.

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

## **National Regulations**

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

Hazard class for water : WGK 1

Classification according to AwSV, Annex 1

: 8B German storage class

## 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**

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Skin corrosion 1, H314	Based on product data or assessment	
Serious eye damage 1, H318	Based on product data or assessment	

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

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

#### Full text of other abbreviations

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

#### **Further information**

Prepared by : Regulatory Affairs

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

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

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

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**Annex: Exposure Scenarios** 

Exposure Scenario: Dishwash and rinse aid product, Automatic process with PPE

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

Plant

: Municipal sewage treatment plant

Contributing scenario controlling worker exposure for:

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

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

1

dedicated facilities

Exposure duration : 60 min

Operational conditions and

risk management measures

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour

Indoor

Skin Protection : see section 8

Respiratory Protection : see section 8

Contributing scenario controlling worker exposure for:

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

Exposure duration : 480 min

Operational conditions and risk management measures

Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection : see section 8

Respiratory Protection : see section 8

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