

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

# **TRIPLEX PLUS-M**

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

#### 1.1 Product identifier

Product name : TRIPLEX PLUS-M

UFI : ASY6-73DF-D00S-VACY

Product code : 109366E

Use of the

Substance/Mixture

Booster

Substance type: : Mixture

For professional users only.

Product dilution information : No dilution information provided.

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

Identified uses : Laundry aid (non-gasing). Automatic process

Laundry aid (non-gasing). 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 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

Date of Compilation/Revision : 26.06.2023 Version : 2.1

# **Section: 2. HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

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

Acute toxicity, Category 4 H302 Skin irritation, Category 2 H315

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Serious eye damage, Category 1

H318

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

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Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary Statements : **Prevention:** 

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P310

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: Isotridecanol, ethoxylated

# 2.3 Other hazards

None known.

# Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

#### **Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration
	EC-No.	REGULATION (EC) No 1272/2008	: [%]
	REACH No.	112002/11014 (20) 140 1272/2000	. [,0]
Isotridecanol, ethoxylated	69011-36-5	Acute toxicity Category 4; H302	>= 50 - <=
	500-241-6	Skin irritation Category 2; H315	100
	01-2119976362-32	Serious eye damage Category 1; H318	
	01-2119970302-32		
		Chronic aquatic toxicity Category 3; H412	
Fotty alooh all oth avy dates	69212 22 0	Aguta taviaity Catagony 4, U202	>= 10 - < 20
Fattyalcohol ethoxylates	68213-23-0	Acute toxicity Category 4; H302	>= 10 - < 20
=/< C15 and =/< 5EO	500-201-8	Serious eye damage Category 1; H318	
	01-2119489387-20	Acute aquatic toxicity Category 1; H400	
		Chronic aquatic toxicity Category 3; H412	
		Official addatic toxicity Category 5, 11412	
ethanol	64-17-5	Flammable liquids Category 2; H225	>= 5 - < 10
	200-578-6	Serious eye damage/eye irritation	
	01-2119457610-43	Category 2; H319	
		Serious eye damage/eye irritation	
		Category 2	
		<b>0</b> ,	
		50 - 100 %	

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Substances with a workp	lace exposure limit:		
Isopropyl Alcohol	67-63-0 200-661-7 01-2119457558-25	Flammable liquids Category 2; H225 Eye irritation Category 2; H319 Specific target organ toxicity - single exposure Category 3; H336	>= 0.25 - < 0.5

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

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.

Use a mild soap if available. Get medical attention if irritation

develops and persists.

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

If inhaled : Remove to fresh air. Treat symptomatically. 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**

# 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

: Fire Hazard

Keep away from heat and sources of ignition. Flash back possible over considerable distance.

Hazardous combustion

products

: Depending on combustion properties, decomposition products

may include following materials:

Carbon oxides

nitrogen oxides (NOx) Sulphur oxides

Oxides of phosphorus

#### 5.3 Advice for firefighters

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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

Advice for non-emergency

personnel

: Ensure adequate ventilation. Remove all sources of ignition. 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.

# 6.2 Environmental precautions

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

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

Methods for cleaning up

Eliminate all ignition sources if safe to do so. 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

Advice on safe handling : Do not ingest. Avoid contact with skin and eyes. Do not get in

eyes, on skin, or on clothing. Use only with adequate ventilation. Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). 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).

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

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

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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.

# 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep away from heat and sources of ignition. Keep away from oxidizing agents. Keep out of reach of children. Keep container

tightly closed. Store in suitable labeled containers.

Storage temperature : 0 °C to 50 °C

7.3 Specific end uses

Specific use(s) : Laundry aid (non-gasing). Automatic process

Laundry aid (non-gasing). Semi automatic process

# Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-N	٥.	Value type (Form of exposure)	Control parameters	Basis
ethanol	64-17-5	5	AGW	200 ppm 380 mg/m3	TRGS 900
Further information	Υ	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Isopropyl Alcohol	67-63-0	)	AGW	200 ppm 500 mg/m3	TRGS 900
Further information	Υ	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

#### **Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Isopropyl Alcohol	67-63-0	Acetone: 25 mg/l (Blood)	Immediately after exposition or after working hours	TRGS 903
		Acetone: 25 mg/l (Urine)	Immediately after exposition or after working hours	TRGS 903

# DNEL

Isopropyl Alcohol	: End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects 888 mg/kg
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 500 mg/m3
	End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term systemic effects 319 mg/kg
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects

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Value: 89 mg/m3

End Use: Consumers
Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

26 mg/kg

#### **PNEC**

| Sopropyl Alcohol | : | Fresh water | Value: 140.9 mg/l

Marine water Value: 140.9 mg/l

Intermittent use/release Value: 140.9 mg/l

Fresh water Value: 552 mg/kg

Marine sediment Value: 552 mg/kg

Soil

Value: 28 mg/kg

Sewage treatment plant Value: 2251 mg/l

Oral

Value: 160 mg/kg

#### 8.2 Exposure controls

#### 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

trace, riands 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 0.3 mm for nitrile rubber 0.2

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)

: 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

Physical state : liquid

Colour : colourless
Odour : odourless

pH : 6.0 - 9.0, 100 %

Particle characteristics

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

potential

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

/Coatings

Flash point : 75 °C closed cup

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

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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

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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

: 0.91 - 0.96

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: noctanol/water (log value) : 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

#### 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

Heat, flames and sparks.

#### 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)

Sulphur oxides

Oxides of phosphorus

# Section: 11. TOXICOLOGICAL INFORMATION

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

exposure

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

**Product** 

: Acute toxicity estimate : 1,466 mg/kg Acute oral toxicity

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

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

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

Serious eye damage/eye

irritation

: There is no data available for this product.

Respiratory or skin

sensitization

: There is no data available for this product.

Carcinogenicity : There is no data available for this product.

Reproductive effects : There is no data available for this product.

Germ cell mutagenicity : There is no data available for this product.

Teratogenicity : There is no data available for this product.

STOT - single exposure : There is no data available for this product.

STOT - repeated exposure : There is no data available for this product.

Aspiration toxicity : There is no data available for this product.

Components

Acute oral toxicity : Isotridecanol, ethoxylated LD50 rat: 800 mg/kg

Test substance: Information given is based on data obtained from

similar substances.

Fattyalcohol ethoxylates =/< C15 and =/< 5EO LD50 rat: 1,150

mg/kg

ethanol LD50 rat: 10,470 mg/kg

Isopropyl Alcohol LD50 rat: 5,840 mg/kg

Components

Acute inhalation toxicity : ethanol 4 h LC50 rat: 117 mg/l

Test atmosphere: vapour

Isopropyl Alcohol 4 h LC50 rat: > 30 mg/l

Test atmosphere: vapour

Components

: Isotridecanol, ethoxylated LD50 rat: 2,150 mg/kg Acute dermal toxicity

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Test substance: Information given is based on data obtained from

similar substances.

ethanol LD50 rabbit: 15,800 mg/kg

Isopropyl Alcohol LD50 rabbit: 12,870 mg/kg

**Potential Health Effects** 

Eyes : Causes serious eye damage.

Skin : Causes skin irritation.

Ingestion : Harmful if swallowed.

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** 

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Irritation

Ingestion : No information available.

Inhalation : No symptoms known or expected.

11.2 Information on other hazards

Further information : no data available

# **Section: 12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

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

Toxicity to fish : Isotridecanol, ethoxylated

96 h LC50 Fish: 20.13 mg/l

Test substance: Information given is based on data obtained from

similar substances.

Fattyalcohol ethoxylates =/< C15 and =/< 5EO 96 h LC50 Danio rerio (zebra fish): 0.876 mg/l

Test substance: Information given is based on data obtained from

similar substances.

ethanol

96 h LC50 Pimephales promelas (fathead minnow): > 100 mg/l

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Isopropyl Alcohol

96 h LC50 Pimephales promelas (fathead minnow): 9,640 mg/l

# Components

Toxicity to daphnia and other

aquatic invertebrates

: Isotridecanol, ethoxylated

48 h EC50 Daphnia magna (Water flea): 5.33 mg/l

Test substance: Information given is based on data obtained from

similar substances.

Fattyalcohol ethoxylates =/< C15 and =/< 5EO 48 h EC50 Daphnia magna (Water flea): 0.53 mg/l

Test substance: Information given is based on data obtained from

similar substances.

ethanol

48 h EC50 Aquatic Invertebrate: 857 mg/l

Isopropyl Alcohol

LC50 Daphnia magna (Water flea): > 10,000 mg/l

#### Components

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

72 h EC50 Pseudokirchneriella subcapitata (algae): 0.41 mg/l Test substance: Information given is based on data obtained from

similar substances.

#### 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 : Isotridecanol, ethoxylated

Result: Readily biodegradable.

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

Result: Readily biodegradable.

ethanol

Result: Readily biodegradable.

Isopropyl Alcohol

Result: Readily biodegradable.

#### 12.3 Bioaccumulative potential

no data available

#### 12.4 Mobility in soil

no data available

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#### 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 : 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.

#### **Section: 14. TRANSPORT INFORMATION**

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

1401111

14.2 UN proper shipping : Not dangerous goods

name

14.3 Transport hazard : Not dangerous goods

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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

: Not dangerous goods 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

#### Sea transport (IMDG/IMO)

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 14.5 Environmental hazards : Not dangerous goods 14.6 Special precautions for : Not dangerous goods

user

14.7 Maritime transport in : Not dangerous goods

bulk according to IMO

instruments

# **Section: 15. REGULATORY INFORMATION**

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

according to Detergents

: 30 % and more: Non-ionic surfactants

Regulation EC 648/2004

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of majoraccident hazards involving dangerous substances.

: Not applicable.

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 2

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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

Classification	Justification
Acute toxicity 4, H302	Calculation method
Skin irritation 2, H315	Calculation method
Serious eye damage 1, H318	Calculation method

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

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
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; 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

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Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Prepared by : Regulatory Affairs

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

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

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

# **Annex: Exposure Scenarios**

# Exposure Scenario: Laundry aid (non-gasing). Automatic process

Life Cycle Stage : Use at industrial sites

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

products)

#### Contributing scenario controlling environmental exposure for:

Environmental release : ERC4 Industrial use of processing aids in processes and

category

products, not becoming part of articles

Daily amount per site : 50 kg

Type of Sewage Treatment

Plant

: Municipal sewage treatment plant

#### Contributing scenario controlling worker exposure for:

Process category : **PROC8b** Transfer of substance or preparation (charging/

discharging) from/ to vessels/ large containers at

dedicated facilities

Exposure duration : 60 min

Operational conditions and risk management measures

: Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection : see section 8

Respiratory Protection : see section 8

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## Contributing scenario controlling worker exposure for:

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

controlled exposure

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

# Exposure Scenario: Laundry aid (non-gasing). Semi automatic process

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

products)

#### 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

Indoor

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 : **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 : see section 8

Respiratory Protection : see section 8

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