

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

#### 1.1 Product identifier

Product name : TOILETCARE 64

Product code : 113681E

Use of the : Sanitary cleaner

Substance/Mixture

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 : Sanitary cleaner. 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 Ltd.

PO Box 11; Winnington Avenue

Northwich, Cheshire, United Kingdom CW8 4DX

+ 44 (0)1606 74488 ccs@ecolab.com

#### 1.4 Emergency telephone number

Emergency telephone : +441618841235

number +32-(0)3-575-5555 Trans-European

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### **Section: 2. HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance or mixture

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

Corrosive to metals, Category 1
Skin corrosion, Sub-category 1B
H314
Serious eye damage, Category 1
H318

The classification of this product is based only on its extreme pH value (in accordance with current European legislation).

#### 2.2 Label elements

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

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Hazard pictograms



Signal Word : Danger

Hazard Statements : H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:** 

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

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.

P310 Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label: Phosphoric acid

#### 2.3 Other hazards

Do not mix with bleach or other chlorinated products – will cause chlorine gas.

## 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.	,	
Phosphoric acid	7664-38-2	Skin corrosion Category 1B; H314	>= 50 - <= 100
	231-633-2	Corrosive to metals Category 1; H290	
	01-2119485924-24		
Alkylamineoxides	61791-46-6	Acute toxicity Category 4; H302	>= 3 - < 5
	263-179-6	Skin irritation Category 2; H315	
		Serious eye damage Category 1; H318	
		Acute aquatic toxicity Category 1; H400	
Diethylene Glycol	111-46-6	Acute toxicity Category 4; H302	>= 1 - < 2.5
	203-872-2	Specific target organ toxicity - repeated	
	01-2119457857-21	exposure Category 2; H373	
N,N-	68955-55-5	Acute toxicity Category 4; H302	>= 0.5 - < 1
Dimethyldodecylamine N-	273-281-2	Skin irritation Category 2; H315	
oxide	01-2119489396-21	Serious eye damage Category 1; H318	
		Acute aquatic toxicity Category 1; H400	
		Chronic aquatic toxicity Category 2;	
		H411	

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

**Section: 4. FIRST AID MEASURES** 

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#### 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.

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

> Use a mild soap if available. 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. Get medical

attention immediately.

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

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

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Not flammable or combustible.

Hazardous combustion

products

: Depending on combustion properties, decomposition products

may include following materials:

Carbon oxides

nitrogen oxides (NOx) Sulphur oxides

Oxides of phosphorus

#### 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.

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# **Section: 6. ACCIDENTAL RELEASE MEASURES**

## 6.1 Personal precautions, protective equipment and emergency procedures

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.

## 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 : 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

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. Do not mix with bleach or other

chlorinated products - will cause chlorine gas.

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

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

Wash face, hands and any exposed skin thoroughly after

handling. 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 strong bases. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Absorb spillage to prevent material damage. Keep only in original

packaging.

Storage temperature : 0 °C to 40 °C

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Packaging material : Suitable material: Plastic material

Unsuitable material: Mild steel, Aluminium

7.3 Specific end uses

Specific use(s) : Sanitary cleaner. Manual process

### Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

# **Occupational Exposure Limits**

Components	CAS-N	<b>O</b> .	Value type (Form of exposure)	Control parameters	Basis
Phosphoric acid	7664-38-2		TWA	1 mg/m3	UKCOSSTD
			STEL	2 mg/m3	UKCOSSTD
Diethylene Glycol	111-46-6		TWA	23 ppm	UKCOSSTD
				101 mg/m3	
Further information	2	Where no specific short-term exposure limit is listed, a figure three times the			
		long-term exposure should be used			

#### DNEL

DINLL		
Phosphoric acid	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 2 mg/m3
		End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 1 mg/m3
		End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 0.73 mg/m3

#### 8.2 Exposure controls

### 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

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Gloves Nitrile rubber butyl-rubber

Breakthrough time: 1 – 4 hours

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.

#### **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

Appearance : liquid

Colour : dark blue

Odour : Perfumes, fragrances

pH : 0.5 - 1.0, 100 %

Flash point : Not applicable., Does not sustain combustion.

Odour Threshold : Not applicable and/or not determined for the mixture

Melting point/freezing point : Not applicable and/or not determined for the mixture

Initial boiling point and

boiling range

: Not applicable and/or not determined for the mixture

Evaporation rate : Not applicable and/or not determined for the mixture Flammability (solid, gas) : Not applicable and/or not determined for the mixture Upper explosion limit : Not applicable and/or not determined for the mixture Lower explosion limit : Not applicable and/or not determined for the mixture Vapour pressure : Not applicable and/or not determined for the mixture

Relative vapour density : Not applicable and/or not determined for the mixture

Relative density : 1.494 - 1.504

Water solubility : soluble

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

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Partition coefficient: n-

octanol/water

: Not applicable and/or not determined for the mixture

Auto-ignition temperature : Not applicable and/or not determined for the mixture

Thermal decomposition : Not applicable and/or not determined for the mixture

Viscosity, kinematic : Not applicable and/or not determined for the mixture

Explosive properties : Not applicable and/or not determined for the mixture

Oxidizing properties : 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

Do not mix with bleach or other chlorinated products – will cause chlorine gas.

## 10.4 Conditions to avoid

None known.

#### 10.5 Incompatible materials

Metals

Organic materials

Bases

Mild steel

Aluminium

#### 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

#### 11.1 Information on toxicological effects

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

exposure

## **Product**

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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

: 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 : Phosphoric acid

LD50 rat: > 2,600 mg/kg

Alkylamineoxides LD50 rat: 1,041 mg/kg

N,N-Dimethyldodecylamine N-oxide

LD50 rat: 1,303 mg/kg

Test substance: Information given is based on data obtained from

similar substances.

Components

Acute dermal toxicity : Phosphoric acid

LD50 rabbit: > 2,000 mg/kg

Diethylene Glycol

LD50 rabbit: 13,300 mg/kg

**Potential Health Effects** 

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

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

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

### **Experience with human exposure**

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

## Section: 12. ECOLOGICAL INFORMATION

## 12.1 Ecotoxicity

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

**Product** 

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

aquatic invertebrates

Toxicity to algae : no data available

Components

Toxicity to fish Alkylamineoxides

96 h LC50 Fish: 1 mg/l

Diethylene Glycol

96 h LC50 Pimephales promelas (fathead minnow): 75,200 mg/l

N,N-Dimethyldodecylamine N-oxide

96 h LC50 Oncorhynchus mykiss (rainbow trout): 1.26 mg/l Test substance: Information given is based on data obtained from

similar substances.

Components

Toxicity to daphnia and other : Phosphoric acid

aquatic invertebrates

48 h EC50 Daphnia magna (Water flea): > 100 mg/l

Diethylene Glycol

24 h EC50 Daphnia magna (Water flea): > 10,000 mg/l

N,N-Dimethyldodecylamine N-oxide

48 h EC50 Daphnia magna (Water flea): 3.1 mg/l

Components

Toxicity to algae : Phosphoric acid

72 h EC50 Desmodesmus subspicatus (green algae): > 100 mg/l

Diethylene Glycol 96 h EC50: 9,362 mg/l

N,N-Dimethyldodecylamine N-oxide

72 h EC50: 0.24 mg/l

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Test substance: Information given is based on data obtained from

similar substances. 72 h NOEC: 0.075 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 : Phosphoric acid

Result: Not applicable - inorganic

Alkylamineoxides

Result: Readily biodegradable.

Diethylene Glycol

Result: Readily biodegradable.

N,N-Dimethyldodecylamine N-oxide 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 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 in compliance with local regulations. Dispose of wastes in an approved waste disposal

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facility.

Contaminated packaging

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

Guidance for Waste Code

selection

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

#### **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 : 1805

14.2 UN proper shipping : PHOSPHORIC ACID SOLUTION

name

14.3 Transport hazard : 8

class(es)

14.4 Packing group : III14.5 Environmental hazards : No14.6 Special precautions for : None

user

Air transport (IATA)

14.1 UN number : 1805

14.2 UN proper shipping : Phosphoric acid, solution

name

14.3 Transport hazard : 8

class(es)

14.4 Packing group : III14.5 Environmental hazards : No14.6 Special precautions for : None

user

Sea transport (IMDG/IMO)

14.1 UN number : 1805

14.2 UN proper shipping : PHOSPHORIC ACID SOLUTION

name

14.3 Transport hazard : 8

class(es)

14.4 Packing group : III14.5 Environmental hazards : No14.6 Special precautions for : None

user

14.7 Transport in bulk : Not applicable.

according to Annex II of MARPOL 73/78 and the IBC

Code

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### **Section: 15. REGULATORY INFORMATION**

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

according to Detergents

: less than 5 %: Anionic surfactants, Non-ionic surfactants,

Regulation EC 648/2004 Polycarboxylates

Other constituents: Perfumes

Allergens: Hexyl cinnamal

#### **National Regulations**

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

Other regulations : The Chemicals (Hazard Information and Packaging for Supply)

Regulations.

The Control of Substances Hazardous to Health Regulations.

Health and Safety at Work Act.

## **15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out on the product.

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

#### Procedure used to derive the classification according to REGULATION (EC) No 1272/2008

Classification	Justification
Corrosive to metals 1, H290	Calculation method
Skin corrosion 1B, H314	Based on product data or assessment
Serious eye damage 1, H318	Based on product data or assessment

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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure
	if swallowed.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS – Australian Inventory of Chemical Substances; ASTM – American Society for the Testing of Materials; bw – Body weight; CLP – Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR – Carcinogen, Mutagen or Reproductive Toxicant; DIN – Standard of the German Institute for Standardisation; DSL – Domestic Substances List (Canada); ECHA – European Chemicals Agency; EC-Number – European Community number; ECx – Concentration associated with x% response; ELx – Loading rate associated with x% response; EmS – Emergency Schedule; ENCS – Existing and New Chemical Substances (Japan); ErCx – Concentration associated with x% growth rate response; GHS – Globally Harmonized System; GLP – Good Laboratory Practice; IARC – International Agency for Research on Cancer; IATA – International Air Transport Association; IBC –

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International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR – (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI – Taiwan Chemical Substance Inventory; TRGS – Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB -Very Persistent and Very Bioaccumulative

Prepared by : Regulatory Affairs

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

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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: Sanitary cleaner. 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

systems

Daily amount per site : 7.5 kg

Type of Sewage Treatment : Municipal sewage treatment plant

Plant

category

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# Contributing scenario controlling worker exposure for:

Process category PROC10 Roller application or brushing

: Indoor

**Exposure duration** 480 min

Operational conditions and

risk management measures

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection No

**Respiratory Protection** No

## Contributing scenario controlling worker exposure for:

PROC8a Transfer of substance or preparation (charging/ Process category

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

dedicated facilities

60 min **Exposure duration** 

Operational conditions and

risk management measures

Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection Yes: See Section 8

**Respiratory Protection** No

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