

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

#### 1.1 Product identifier

Product name	:	DELIMER EL 60
Product code	:	114819E
Use of the Substance/Mixture	:	Delimer
Substance type:	:	Mixture

For professional users only.

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

Identified uses	:	Descaling agent - Spray and rinse manual process, without PPE
Recommended restrictions on use	:	Reserved for industrial and professional use.

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

Company	<ul> <li>Ecolab Ltd.</li> <li>PO Box 11; Winnington Avenue</li> <li>Northwich, Cheshire, United Kingdom CW</li> <li>+ 44 (0)1606 74488</li> <li>ccs@ecolab.com</li> </ul>	/8 4DX
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#### 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)

#### Product AS SOLD

Not a hazardous substance or mixture. The classification of this product is based on toxicological assessment.

#### Product AT USE DILUTION

Not a hazardous substance or mixture.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) Product AS SOLD

Not a hazardous substance or mixture.

#### Product AT USE DILUTION

Not a hazardous substance or mixture.

# Additional Labelling:

Product AS SOLD Special labelling of certain : Safety data sheet available on request. mixtures

#### 2.3 Other hazards

#### Product AS SOLD

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

#### 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 : [%]
sulphamic acid	5329-14-6 226-218-8 01-2119488633-28	Skin irritation Category 2; H315 Eye irritation Category 2; H319 Chronic aquatic toxicity Category 3; H412	>= 5 - < 10
Alcohols, C13, branched, ethoxylated	69011-36-5 POLYMER	Acute toxicity Category 4; H302 Serious eye damage Category 1; H318	>= 2.5 - < 3
ethanol	64-17-5 200-578-6 01-2119457610-43	Flammable liquids Category 2; H225 Serious eye damage/eye irritation Category 2; H319 Serious eye damage/eye irritation Category 2A 50 - 100 %	>= 1 - < 2.5

#### **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

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

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.
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.

#### 4.3 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	th	e 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 Sulphur oxides nitrogen oxides (NOx)
5.3	Advice for firefighters		
	Special protective equipment for firefighters	:	Use personal protective equipment.
	Further information	:	Fire residues and contaminated fire extinguishing water must be

#### Section: 6. ACCIDENTAL RELEASE MEASURES

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

fire and/or explosion do not breathe fumes.

#### 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	:	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		
	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 co	ont	ainment 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).

#### 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.

waterway.

#### Section: 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

#### Product AS SOLD

Advice on safe handling

: Use only with adequate ventilation. Wash hands thoroughly after handling. Do not mix with bleach or other chlorinated products –

Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a

DELIMER EL 60	
	will cause chlorine gas. 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 away from strong bases. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers	s.
Storage temperature	: 0 °C to 40 °C	
Product AT USE DILUTION		
Requirements for storage	: Keep out of reach of children. Keep container tightly closed. Stor	e
areas and containers	in suitable labeled containers.	

#### 7.3 Specific end uses

**Product AS SOLD** 

#### 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
ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m3	UKCOSSTD

#### 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 measure	S
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after

		handling.
Eye/face protection (EN 166)	:	No special protective equipment required.
Hand protection (EN 374)	:	No special protective equipment required.
Skin and body protection (EN 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 cor	ntro	bls
Engineering measures	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection measu	res	
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**

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General advice
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: Consider the provision of containment around storage vessels.

# Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
Appearance :	liquid	liquid
Colour :	colourless	colourless
Odour :	Perfumes, fragrances	characteristic
pH :	0.5 - 1.0, 100 %	2.01 - 2.8

Flash point	: closed cupNot applicable.
Odour Threshold	: Not applicable and/or not determined for the mixture
Melting point/freezing point	: Not applicable and/or not determined for the mixture
Initial boiling point and boiling range	: Not applicable and/or not determined for the mixture
Evaporation rate	: Not applicable and/or not determined for the mixture
Flammability (solid, gas)	: Not applicable and/or not determined for the mixture
Upper explosion limit	: Not applicable and/or not determined for the mixture
Lower explosion limit	: Not applicable and/or not determined for the mixture
Vapour pressure	: Not applicable and/or not determined for the mixture
Relative vapour density	: Not applicable and/or not determined for the mixture
Relative density	: 1.036 - 1.046
Water solubility	: soluble
Solubility in other solvents	: Not applicable and/or not determined for the mixture
Partition coefficient: n- octanol/water	: Not applicable and/or not determined for the mixture
Auto-ignition temperature	: Not applicable and/or not determined for the mixture
Thermal decomposition	: Not applicable and/or not determined for the mixture
Viscosity, kinematic	: Not applicable and/or not determined for the mixture
Explosive properties	: Not applicable and/or not determined for the mixture
Oxidizing properties	: 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

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

None known.

#### **10.6 Hazardous decomposition products**

Depending on combustion properties, decomposition products may include following materials: Carbon oxides Sulphur oxides nitrogen oxides (NOx)

#### Section: 11. TOXICOLOGICAL INFORMATION

#### **11.1 Information on toxicological effects**

<b>Product AS SOLD</b> Information on likely routes of exposure	:	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	:	No skin irritationThe classification of this product is based on toxicological assessment.
Serious eye damage/eye irritation	:	No eye irritationThe classification of this product is based on toxicological assessment.
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	:	sulphamic acid LD50 rat: 3,160 mg/kg
		Alcohols, C13, branched, ethoxylated LD50 rat: > 500 mg/kg
		ethanol LD50 rat: 10,470 mg/kg
Components		
Acute inhalation toxicity	:	ethanol 4 h LC50 rat: 117 mg/l Test atmosphere: vapour

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Components	
Acute dermal toxicity	: sulphamic acid LD50 rat: > 2,000 mg/kg
	ethanol LD50 rabbit: 15,800 mg/kg
Potential Health Effects	
Product AS SOLD 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.
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 expo	sure
Product AS SOLD 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.
Product AT USE DILUTION Eye contact	: No symptoms known or expected.
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

# Section: 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

Product AS SOLD	
Environmental Effects	: This product has no known ecotoxicological effects.

Product AT USE DILUTION

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

# **DELIMER EL 60**

Environmental Effects	: T	This product has no known ecotoxicological effects.
Product AS SOLD Product		
Toxicity to fish	: n	no data available
Toxicity to daphnia and other aquatic invertebrates	: n	no data available
Toxicity to algae	: n	no data available
Components		
Toxicity to fish	: A	Alcohols, C13, branched, ethoxylated96 h LC50 Fish: 3 mg/l
		ethanol96 h LC50 Pimephales promelas (fathead minnow): > 100 ng/l
Components		
Toxicity to daphnia and other aquatic invertebrates		Alcohols, C13, branched, ethoxylated48 h EC50 Daphnia magna Water flea): 1.5 mg/l
	е	ethanol48 h EC50 Aquatic Invertebrate: 857 mg/l
Components		
Toxicity to algae	: s	sulphamic acid72 h EC50: 48 mg/l
12.2 Persistence and degradabi	ity	
Product		
Biodegradability	а	The surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC
Components		
Biodegradability	: s	sulphamic acidResult: Not applicable - inorganic
	A	Alcohols, C13, branched, ethoxylatedResult: Biodegradable
	е	ethanolResult: Readily biodegradable.
12.3 Bioaccumulative potential		
no data available		
12.4 Mobility in soil		
no data available		
12.5 Results of PBT and vPvB a	ssess	sment
Product		
Assessment	e p	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 AS SOLD		
Product	:	Do not contaminate storm water drains, natural waterways or soil 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	:	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.
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	: Not dangerous goods
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	-

#### Air transport (IATA)

14.1 UN number	: Not dangerous goods
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	

#### Sea transport (IMDG/IMO)

14.1 UN number	: Not dangerous goods
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 Transport in bulk	: Not dangerous goods
according to Annex II of	
MARPOL 73/78 and the IBC	
Code	

#### Section: 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture according to Detergents : less than 5 %: Non-ionic surfactants Regulation EC 648/2004

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.

#### 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.
		ricaliti and Galety 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 ac	cording to REGULATION (EC) No 1272/2008
Classification	Justification

Not a hazardous substance or mixture.

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.
H412	Harmful to aquatic life with long lasting effects.
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#### 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

#### 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: Descaling agent - Spray and rinse manual process, without PPE

Life Cycle Stage	:	Widespread	d use by professional workers
Product category	:	PC35	Washing and cleaning products (including solvent based products)

#### Contributing scenario controlling environmental exposure for:

Environmental release category	:	ERC8a	Wide dispersive indoor use of processing aids in open systems
Daily amount per site	:	7.5 kg	
Type of Sewage Treatment Plant	:	Municipal s	ewage treatment plant

1

#### Contributing scenario controlling worker exposure for:

Process category	:	PROC10	Roller application or brushing
Exposure duration	:	480 min	
Operational conditions and risk management measures	:	Indoor	
		Local Exha	ust Ventilation is not required
General ventilation		Ventilation	rate per hour
Skin Protection	:	see section	8
Respiratory Protection	:	see section	8

#### Contributing scenario controlling worker exposure for:

Process category	:	PROC8a	Transfer of substance or preparation (chargi discharging) from/ to vessels/ large containe dedicated facilities	
Exposure duration	:	60 min		
Operational conditions and risk management measures	:	Indoor		
		Local Exha	ust Ventilation is not required	
General ventilation		Ventilation	rate per hour	1
Skin Protection	:	see section	8	
Respiratory Protection	:		-	

# Contributing scenario controlling worker exposure for:

Process category	:	PROC11	Non industrial spraying
Exposure duration	:	60 min	
Operational conditions and risk management measures	:	Indoor	
		Local Exha	ust Ventilation is not required
General ventilation			ust Ventilation is not required
General ventilation Skin Protection	:		rate per hour

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