

# SAFETY DATA SHEET



**Pelargonic acid Halal**  
**10560C**

Version / Revision 2.01  
Supersedes Version 2.00\*\*\*

Revision Date 24-Jan-2022  
Issuing date 24-Jan-2022

## SECTION 1: Identification of the substance / mixture and of the company / undertaking

### 1.1. Product identifier

Identification of the  
substance/preparation

**Pelargonic acid Halal**

Chemical Name Nonanoic acid  
CAS-No 112-05-0  
EC No. 203-931-2

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

Identified uses Distribution of substance  
Formulation  
cleaning agent  
Lubricants and lubricant additives  
Intermediate  
laboratory chemicals  
Industrial processing of articles

Uses advised against None

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

Company/Undertaking **OQ Chemicals GmbH**  
Identification Rheinpromenade 4A  
D-40789 Monheim  
Germany

Product Information Product Stewardship  
FAX: +49 (0)208 693 2053  
email: sc.psq@oq.com

### 1.4. Emergency telephone number

Emergency telephone number +44 (0) 1235 239 670 (UK)  
available 24/7

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

This substance is classified based on Directive 1272/2008/EC and its amendments (CLP Regulation)

Skin corrosion/irritation Category 2, H315  
Serious eye damage/eye irritation Category 2, H319  
Environmental hazard Aquatic Chronic 3; H412

Additional information

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For full text of Hazard- and EU Hazard-statements see SECTION 16.

## 2.2. Label elements

Labelling according to Regulation 1272/2008/EC and its amendments (CLP Regulation).

### Hazard pictograms



#### Signal word

#### Warning

#### Hazard statements

H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H412: Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  
P332 + P313: If skin irritation occurs: Get medical advice/ attention.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313: If eye irritation persists: Get medical advice/ attention.

## 2.3. Other hazards

Vapour/air-mixtures are explosive at intense warming

#### PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Component	CAS-No	1272/2008/EC	Concentration (%)
Pelargonic acid	112-05-0	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	> 95,5

For full text of Hazard- and EU Hazard-statements see SECTION 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Keep at rest. Aerate with fresh air. When symptoms persist or in all cases of doubt seek medical advice.

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## **Skin**

Wash off immediately with soap and plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

## **Eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

## **Ingestion**

Call a physician immediately. Do not induce vomiting without medical advice.

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

### **Main symptoms**

cough, headache, nausea, shortness of breath.

### **Special hazard**

Lung irritation, Lung oedema.

## **4.3. Indication of any immediate medical attention and special treatment needed**

### **General advice**

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Treat symptomatically. If ingested, flush stomach and compensate acidosis.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water spray

#### **Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

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

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

carbon monoxide (CO)

carbon dioxide (CO<sub>2</sub>)

Combustion gases of organic materials must in principle be graded as inhalation poisons

Vapours are heavier than air and may spread along floors

Vapour/air-mixtures are explosive at intense warming

### **5.3. Advice for firefighters**

#### **Special protective equipment for firefighters**

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

#### **Precautions for firefighting**

Keep people away from and upwind of fire. Cool containers / tanks with water spray. Dike and collect water used to fight fire. Water run-off can cause environmental damage.

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## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.

For emergency responders: Personal protection see section 8.

### **6.2. Environmental precautions**

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant). Water runoff can cause environmental damage.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for containment**

Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

#### **Methods for cleaning up**

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

### **6.4. Reference to other sections**

For personal protective equipment see section 8.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Further info may be available in the appropriate Exposure scenarios in the annex to this SDS.

#### **Advice on safe handling**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms.

#### **Hygiene measures**

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

#### **Advice on the protection of the environment**

See Section 8: Environmental exposure controls.

#### **Incompatible products**

bases  
amines  
strong oxidizing agents  
reducing agents

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Advice on protection against fire and explosion**

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Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material. Vapour/air-mixtures are explosive at intense warming.

### **Technical measures/Storage conditions**

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Keep at temperatures between 16 and 40 °C (60 and 104 °F).

### **Temperature class**

T2

### **7.3. Specific end use(s)**

Distribution of substance

Formulation

cleaning agent

Lubricants and lubricant additives

Intermediate

laboratory chemicals

Industrial processing of articles

For specific end use information see the annex of this safety data sheet

## **SECTION 8: Exposure controls / personal protection**

### **8.1. Control parameters**

#### **Exposure limits European Union**

No exposure limits established

#### **Exposure limits UK**

No exposure limits established.

#### **DNEL & PNEC**

#### **Pelargonic acid, CAS: 112-05-0**

#### **Workers**

**DN(M)EL - long-term exposure - systemic effects - Inhalation**

**DN(M)EL - acute / short-term exposure - systemic effects - Inhalation**

**DN(M)EL - long-term exposure - local effects - Inhalation**

**DN(M)EL - acute / short-term exposure - local effects - Inhalation**

**DN(M)EL - long-term exposure - systemic effects - Dermal**

**DN(M)EL - acute / short-term exposure - systemic effects - Dermal**

**DN(M)EL - long-term exposure - local effects - Dermal**

**DN(M)EL - acute / short-term exposure - local effects - Dermal**

No hazard identified

No hazard identified

Hazard unknown (no further information necessary)

Hazard unknown (no further information necessary)

No hazard identified

No hazard identified

Low hazard (no threshold derived)

Low hazard (no threshold derived)

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**DN(M)EL - local effects - eyes**

Low hazard (no threshold derived)

## General population

**DN(M)EL - long-term exposure - systemic effects - Inhalation**

No hazard identified

**DN(M)EL - acute / short-term exposure - systemic effects - Inhalation**

No hazard identified

**DN(M)EL - long-term exposure - local effects - Inhalation**

Hazard unknown (no further information necessary)

**DN(M)EL - acute / short-term exposure - local effects - Inhalation**

Hazard unknown (no further information necessary)

**DN(M)EL - long-term exposure - systemic effects - Dermal**

No hazard identified

**DN(M)EL - acute / short-term exposure - systemic effects - Dermal**

No hazard identified

**DN(M)EL - long-term exposure - local effects - Dermal**

Low hazard (no threshold derived)

**DN(M)EL - acute / short-term exposure - local effects - Dermal**

Medium hazard (no threshold derived)

**DN(M)EL - long-term exposure - systemic effects - Oral**

No hazard identified

**DN(M)EL - acute / short-term exposure - systemic effects - Oral**

No hazard identified

**DN(M)EL - local effects - eyes**

Low hazard (no threshold derived)

## Environment

**PNEC aqua - freshwater**

0,36 mg/l

**PNEC aqua - marine water**

0,036 mg/l

**PNEC aqua - intermittent releases**

0,6 mg/l

**PNEC STP**

1,4 mg/l

**PNEC sediment - freshwater**

8,5 mg/kg dw\*\*\*

**PNEC sediment - marine water**

0,85 mg/kg dw\*\*\*

**PNEC Air**

No hazard identified

**PNEC soil**

1,48 mg/kg dw\*\*\*

**Secondary poisoning**

No potential for bioaccumulation

## **8.2. Exposure controls**

### **Special adaptations (REACH)**

Not applicable.

### **Appropriate Engineering controls**

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

### **Personal protective equipment**

#### **General industrial hygiene practice**

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Hygiene measures**

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

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## Eye protection

Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

Equipment should conform to EN 166

## Hand protection

Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

<b>Suitable material</b>	nitrile rubber
<b>Evaluation</b>	according to EN 374: level 6
<b>Glove thickness</b>	approx 0,55 mm
<b>Break through time</b>	> 480 min

<b>Suitable material</b>	polyvinylchloride / nitrile rubber
<b>Evaluation</b>	according to EN 374: level 6
<b>Glove thickness</b>	approx 0,9 mm
<b>Break through time</b>	> 480 min

## Skin and body protection

Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

## Environmental exposure controls

If possible use in closed systems. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

## Additional advice

Further details on substance data can be found in the registration dossier under the following link:  
<http://echa.europa.eu/information-on-chemicals/registered-substances>. For specific exposure controls see the annex to this safety data sheet.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	weak
<b>Odour threshold</b>	No data available
<b>pH</b>	4,4 (0,1 g/l in water @ 25 °C (77 °F)) DIN 19268
<b>Melting point/range</b>	13 °C (Pour point)
<b>Method</b>	DIN ISO 3016
<b>Boiling point/range</b>	> 245 - < 266 °C @ 1013 hPa
<b>Method</b>	OECD 103
<b>Flash point</b>	137 °C @ 1013 hPa
<b>Method</b>	ISO 2719
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	Does not apply, the substance is a liquid
<b>Lower explosion limit</b>	0,8 Vol %
<b>Upper explosion limit</b>	9,0 Vol %

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## Vapour pressure

Values [hPa]	Values [kPa]	Values [atm]	@ °C	@ °F	Method
1	0,1	0,001	20	68	DIN EN 13016-2
4,6	0,46	0,005	50	122	DIN EN 13016-2

**Vapour density** 5,5 (Air = 1) @ 20 °C (68 °F)

## Relative density

Values	@ °C	@ °F	Method
0,905	20	68	DIN 51757

**Solubility** ≥ 0,3 g/l @ 20 °C, in water, OECD 105

**log Pow** 3,4 (measured), OECD 117

**Autoignition temperature** 355 °C @ 1013 hPa

**Method** DIN 51794

**Decomposition temperature** ≥ 266 °C @ 1013 hPa OECD 103\*\*\*

**Viscosity** 8,12 mPa\*s @ 20 °C

**Method** dynamic, ASTM D445

**Explosive properties** Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties

**Oxidizing properties** Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties

## 9.2. Other information

**Molecular weight** 158,23

**Molecular formula** C9 H18 O2

**log Koc** 2 @ pH 7\*\*\*

**Dissociation constant** pKa not determinable due to low water solubility @ 20°C (68°F)\*\*\*

**Refractive index** 1,433 @ 20 °C

**Surface tension** 31,7 mN/m (0,27 g/l @ 20°C (68°F)), OECD 115

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

### 10.4. Conditions to avoid

Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

### 10.5. Incompatible materials

bases, amines, strong oxidizing agents, reducing agents.



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## 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Likely routes of exposure** Ingestion, Inhalation, Eye contact, Skin contact

<b>Acute toxicity</b>				
<b>Pelargonic acid (112-05-0)</b>				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	> 2000 mg/kg	rat, male/female	OECD 423
Oral	LD0	2000 mg/kg	rat, male/female	OECD 423
Dermal	LD50	> 2000 mg/kg	rat, male/female	OECD 402
Dermal	LD0	2000 mg/kg	rat, male/female	OECD 402
Inhalative	LC50	> 5,997 mg/l (4h)***	rat, male/female	OECD 403

#### **Pelargonic acid, CAS: 112-05-0**

##### **Assessment**

Based on available data, the classification criteria are not met for:

Acute oral toxicity

Acute dermal toxicity

Acute inhalation toxicity

STOT SE

<b>Irritation and corrosion</b>				
<b>Pelargonic acid (112-05-0)</b>				
Target Organ Effects	Species	Result	Method	
Skin	rabbit	irritating	OECD 404	4h
Eyes	rabbit	irritating		

#### **Pelargonic acid, CAS: 112-05-0**

##### **Assessment**

The available data lead to the classification given in section 2

<b>Sensitization</b>				
<b>Pelargonic acid (112-05-0)</b>				
Target Organ Effects	Species	Evaluation	Method	
Skin	guinea pig	not sensitizing	OECD 406	25 %***
Skin	mouse	not sensitizing	OECD 429	

#### **Pelargonic acid, CAS: 112-05-0**

##### **Assessment**

Based on available data, the classification criteria are not met for:

Skin sensitization

For respiratory sensitization, no data are available

<b>Subacute, subchronic and prolonged toxicity</b>				
<b>Pelargonic acid (112-05-0)</b>				
Type	Dose	Species	Method	

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Subacute toxicity	NOAEL: 1000 mg/kg/d (28d)	rat, male/female	OECD 407 Oral***	Systemic toxicity
Subchronic toxicity	NOAEL: 5074 mg/kg/d (90d)	rat	OECD 408 Oral	Systemic toxicity read across

## **Pelargonic acid, CAS: 112-05-0**

### **Assessment**

Based on available data, the classification criteria are not met for:  
STOT RE

### **Carcinogenicity, Mutagenicity, Reproductive toxicity**

#### **Pelargonic acid (112-05-0)**

Type	Dose	Species	Evaluation	Method	
Mutagenicity		Salmonella typhimurium	negative (with metabolic activation) negative (without metabolic activation)	OECD 471 (Ames)	
Mutagenicity		human lymphocytes	negative (with metabolic activation) negative (without metabolic activation)	OECD 473 (Chromosomal Aberration)	
Developmental Toxicity	NOAEL 1500 mg/kg/d	rat		OECD 414	Maternal toxicity, Fetal toxicity Teratogenicity
Developmental Toxicity	NOAEL 425 mg/kg/d	rabbit		OECD 414	Maternal toxicity, Developmental toxicity, Teratogenicity read across
Reproductive toxicity	NOAEL 4700 mg/kg/d	mouse		OECD 416	read across
Mutagenicity		mouse lymphoma cells	negative (without metabolic activation)	OECD 476 (Mammalian Gene Mutation)	

## **Pelargonic acid, CAS: 112-05-0**

### **CMR Classification**

The available data on CMR properties are summarized in the table above. They do not indicate a classification into categories 1A or 1B

### **Evaluation**

In vitro tests showed mutagenic effects  
Animal testing did not show any effects on fertility

## **Pelargonic acid, CAS: 112-05-0**

### **Main symptoms**

cough, headache, nausea, shortness of breath.

### **Target Organ Systemic Toxicant - Single exposure**

Based on available data, the classification criteria are not met for:  
STOT SE

### **Target Organ Systemic Toxicant - Repeated exposure**

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Based on available data, the classification criteria are not met for:  
STOT RE

## Aspiration toxicity

Due to the viscosity, this product does not present an aspiration hazard

## Note

Handle in accordance with good industrial hygiene and safety practice. Further details on substance data can be found in the registration dossier under the following link:

<http://echa.europa.eu/information-on-chemicals/registered-substances>.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Acute aquatic toxicity</b>			
<b>Pelargonic acid (112-05-0)</b>			
Species	Exposure time	Dose	Method
Pimephales promelas (fathead minnow)	96h	LC50: 104 mg/l	OECD 203
Daphnia magna (Water flea)	48h	EC50: 96 mg/l	EPA OPP 72-2
Pseudokirchneriella subcapitata	72h	EC50: 60 mg/l (Growth rate)	OECD 201 read across***
Activated sludge (domestic)	28 d	NOEC: >= 14 mg/l	OECD 301B

### Long term toxicity

<b>Pelargonic acid (112-05-0)</b>				
Type	Species	Dose	Method	
Reproductive toxicity	Daphnia magna (Water flea)	NOEC: 18 mg/l (21d)	OECD 211	read across
Reproductive toxicity	Daphnia magna (Water flea)	EC50: 47 mg/l/21d	OECD 211	read across
Aquatic toxicity	Pseudokirchneriella subcapitata	NOAEC: 29 mg/l (3d) Growth rate***	OECD 201***	read across

### Terrestrial toxicity

<b>Pelargonic acid (112-05-0)</b>				
Species	Exposure time	Dose	Type	Method
Colinus virginianus (bobwhite quail).***	8 d***	LC50: > 5620 ppm***	Mortality***	EPA OPP 71-2***
Colinus virginianus (bobwhite quail).***	14 d***	LD50: > 2250 mg/kg bw***	Mortality***	EPA OPP 72-1***
Anas platyrhynchos (mallard duck)***	8 d***	LC50: > 5620 ppm***	Mortality***	

### 12.2. Persistence and degradability

#### Pelargonic acid, CAS: 112-05-0

#### Biodegradation

68 - 75 % (28 d), activated sludge (domestic), aerobic, non-adapted, OECD 301 B.

#### Abiotic Degradation

<b>Pelargonic acid (112-05-0)</b>		
Type	Result	Method

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Hydrolysis	not expected	
Photolysis	No data available Half-life (DT50): 1,64 days***	calculated***

## 12.3. Bioaccumulative potential

<b>Pelargonic acid (112-05-0)</b>		
Type	Result	Method
log Pow	3,4 @ 25 °C (77 °F)***	measured, OECD 117
BCF	3,162	calculated

## 12.4. Mobility in soil

<b>Pelargonic acid (112-05-0)</b>		
Type	Result	Method
Surface tension	31,7 mN/m (0,27 g/l @ 20°C (68°F))	OECD 115
Adsorption/Desorption	log Koc: 2 @ pH 7 calculated***	
Distribution to environmental compartments	no data available	

## 12.5. Results of PBT and vPvB assessment

### Pelargonic acid, CAS: 112-05-0 PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

## 12.6. Other adverse effects

### Pelargonic acid, CAS: 112-05-0 No data available

#### **Note**

Avoid release to the environment.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **Product Information**

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

Hazardous waste according to European Waste Catalogue (EWC)

#### **Uncleaned empty packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

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## SECTION 14: Transport information

### Section 14.1 - 14.6

ADR/RID Not restricted

ADN ADN Container  
Not restricted

ICAO-TI / IATA-DGR Not restricted

IMDG Not restricted

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Product name	Nonanoic acid
Ship type	3
Pollution category	Y

## SECTION 15: Regulatory information

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

#### Regulation 1272/2008, Annex VI

##### Pelargonic acid, CAS: 112-05-0

<b>Classification</b>	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 3; H412
<b>Hazard pictograms</b>	GHS07 Exclamation mark
<b>Signal word</b>	Warning
<b>Hazard statements</b>	H315, H319, H412

##### DI 2012/18/EU (Seveso III)

**Category** not subject

##### DI 1999/13/EC (VOC Guideline)

Component	Status
Pelargonic acid CAS: 112-05-0	regulated

##### The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 No. 758

Component	Status
Pelargonic acid CAS: 112-05-0	The substance is/will be pre-registered

For details and further information please refer to the original regulation.

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## International Inventories

### **Pelargonic acid, CAS: 112-05-0**

AICS (AU)  
DSL (CA)  
IECSC (CN)  
EC-No. 2039312 (EU)  
ENCS (2)-608 (JP)  
ISHL (2)-608 (JP)  
KECI KE-26163 (KR)  
INSQ (MX)  
PICCS (PH)  
TSCA (US)  
NZIoC (NZ)\*\*\*  
TCSI (TW)

## National regulatory information Great Britain

### **Releases to air (Pollution Inventory Substances)**

not subject

### **Releases to water (Pollution Inventory Substances)**

not subject

### **Releases to sewer (Pollution Inventory Substances)**

not subject

For details and further information please refer to the original regulation

## **15.2. Chemical safety assessment**

The Chemical Safety Report (CSR) has been generated. For Exposure Scenarios see the annex.

## **SECTION 16: Other information**

### **Full text of H-Statements referred to under sections 2 and 3**

H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H412: Harmful to aquatic life with long lasting effects.

### **Abbreviations**

A table of terms and abbreviations can be found under the following link:  
[http://echa.europa.eu/documents/10162/13632/information\\_requirements\\_r20\\_en.pdf](http://echa.europa.eu/documents/10162/13632/information_requirements_r20_en.pdf)

### **Training advice**

For effective first-aid, special training / education is needed.

### **Sources of key data used to compile the datasheet**

Information contained in this safety data sheet is based on OQ owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

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## Further information for the safety data sheet

Changes against the previous version are marked by \*\*\*. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the OQ homepage ([www.chemicals.oq.com](http://www.chemicals.oq.com)).

## Disclaimer

**For industrial use only.** The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. OQ makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

**End of Safety Data Sheet**

# Annex to the extended Safety Data Sheet (eSDS)

## Exposure scenario identification

- 1 **Formulation & (re)packing of substances and mixtures**
- 2 **Use in Cleaning Products**
- 3 **Use in Cleaning Products**
- 4 **Lubricants**
- 5 **Lubricants**
- 6 **Industrial use resulting in manufacture of another substance (use of intermediates)**
- 7 **Use in laboratories**
- 8 **Industrial processing of articles**
- 9 **Industrial processing of articles**
- 10 **Industrial processing of articles**

**Number of the ES** 1

Short title of the exposure scenario

**Formulation & (re)packing of substances and mixtures**

**List of use descriptors**

## **Sector of uses [SU]**

SU10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

## **Process categories [PROC]**

PROC1: Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional controlled exposure

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

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

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PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)  
PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities  
PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  
PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)  
PROC13: Treatment of articles by dipping and pouring  
PROC14: production of preparations or articles by tableting, compression, extrusion, pelettisation  
PROC15: Use as laboratory reagent

## **Environmental release categories [ERC]**

ERC2: Formulation of preparations (mixtures)

## **Product characteristics**

Refer to attached safety data sheets

## **Processes and activities covered by the exposure scenario**

Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pellettisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.

## **Further explanations**

Industrial use

Human health hazard assessment:

For concentrations below 10 %, the mixture is not hazardous with respect to the substance, no RMM/OCs are necessary

## **Contributing Scenarios**

### **Number of the contributing scenario**

1

### **Contributing exposure scenario controlling environmental exposure for ERC 2**

#### **Further specification**

Chesar 2.2, release factors for (Sp)ERC were modified.

#### **Product characteristics**

Covers percentage substance in the product up to 100 % (unless stated differently).

#### **Amounts used**

Daily amount per site: 2 to

Annual amount per site: 200 to

Fraction of Regional tonnage used locally: 1

#### **Environment factors not influenced by risk management**

River flow rate: 18000 m<sup>3</sup>/d Local freshwater dilution factor: 10 Local marine water dilution factor: 100

#### **Other given operational conditions affecting environmental exposure**

Indoor/Outdoor use

#### **Technical conditions and measures at process level (source) to prevent release**

Release fraction to air from process: 2.5 %

Release fraction to wastewater from process: 0.9 %

Release fraction to soil from process: 0.01%

#### **Conditions and measures related to municipal sewage treatment plant**

Size of municipal sewage system/ treatment plant (m<sup>3</sup>/d): 2000

The minimum grade of elimination in the sewage plant is (%): 87.5

#### **Conditions and measures related to external treatment of waste for disposal**

none

#### **Conditions and measures related to external recovery of waste**

none

### **Number of the contributing scenario**

2

### **Contributing exposure scenario controlling worker exposure for PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 14, PROC 15**



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## Further specification

Qualitative approach used to conclude safe use.

## Product characteristics

Covers percentage substance in the product:  $\geq 10\%$

## Frequency and duration of use

8 h (full shift)

## Other given operational conditions affecting workers exposure

Indoor and outdoor use

## Organisational measures to prevent /limit releases, dispersion and exposure

Regular cleaning of equipment and work area

Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

Training for staff on good practice

Good standard of personal hygiene

Minimization of manual phases

Work procedures minimizing of splashes and spills

Avoidance of contact with contaminated tools and objects

## Conditions and measures related to personal protection, hygiene and health evaluation

Full skin coverage with appropriate light-weight barrier material. Wear suitable gloves (tested to EN374) and eye protection.

## Exposure estimation and reference to its source

### Environment

Environment PEC = predicted environmental concentration (local); RCR = risk characterisation ratio

Fresh Water (Pelagic)	PEC: 0.113 mg/l; RCR: 0.313
Fresh Water (Sediment)	PEC: 1.593 mg/kg dw; RCR: 0.187
Marine Water (Pelagic)	PEC: 0.011 mg/l; RCR: 0.313
Marine Water (Sediment)	PEC: 0.159 mg/kg dw; RCR: 0.187
Agricultural Soil	PEC: 0.255 mg/kg dw; RCR: 0.173
Sewage Treatment Plant (Effluent)	PEC: 1.128 mg/l; RCR: 0.806

### Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

Usage of release factors allows downstream users to verify in a first approximation, if the combination of local usage and production conditions meets the defined release quantities resulting from this exposure scenario (calculated as  $M(\text{site})$  [see amounts used, contributing scenario 1] x release factor [Technical conditions and measures at process level (source) to prevent release; contributing scenario 1])

### associated uses:

Should consumer uses be associated with this exposure scenario, please contact OQ for further details

Other combinations of operational conditions may also be safe. Please contact OQ in case your local operational conditions differ from the ones described above and you are unsure if they are also safe

## Number of the ES 2

Short title of the exposure scenario

## Use in Cleaning Products

### List of use descriptors

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## Sector of uses [SU]

SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites

## Process categories [PROC]

PROC1: Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

PROC7: Industrial spraying

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

PROC15: Use as laboratory reagent

PROC17: Lubrication at high energy conditions and in partly open process

## Environmental release categories [ERC]

ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

## Product characteristics

Refer to attached safety data sheets

## Processes and activities covered by the exposure scenario

Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand).

## Further explanations

Industrial use

Human health hazard assessment:

For concentrations below 10 %, the mixture is not hazardous with respect to the substance, no RMM/OCs are necessary

## Contributing Scenarios

**Number of the contributing scenario**

1

**Contributing exposure scenario controlling environmental exposure for  
ERC 4**

## Further specification

assessment tool used: Chesar 2.2, release factors for (Sp)ERC were modified.

### Product characteristics

Covers percentage substance in the product up to 100 % (unless stated differently).

### Amounts used

Daily amount per site: 5 to

Annual amount per site: 100 to

Fraction of Regional tonnage used locally: 1

### Environment factors not influenced by risk management

River flow rate: 18000 m<sup>3</sup>/d Local freshwater dilution factor: 10 Local marine water dilution factor: 100

### Other given operational conditions affecting environmental exposure

Indoor/Outdoor use

### Technical conditions and measures at process level (source) to prevent release

Release fraction to air from process: 100 %

Release fraction to wastewater from process: 0.3 %

Release fraction to soil from process: 5%

### Conditions and measures related to municipal sewage treatment plant

Size of municipal sewage system/ treatment plant (m<sup>3</sup>/d): 2000

The minimum grade of elimination in the sewage plant is (%): 87.5

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## Conditions and measures related to external treatment of waste for disposal

none

## Conditions and measures related to external recovery of waste

none

## Number of the contributing scenario

2

## Contributing exposure scenario controlling worker exposure for

PROC 1, PROC 2, PROC 3, PROC 7, PROC 8a, PROC 8b, PROC 10, PROC 13, PROC 15, PROC 17

## Further specification

Qualitative approach used to conclude safe use.

## Product characteristics

Covers percentage substance in the product:  $\geq 10\%$

## Frequency and duration of use

8 h (full shift)

## Other given operational conditions affecting workers exposure

Indoor and outdoor use

## Organisational measures to prevent /limit releases, dispersion and exposure

Regular cleaning of equipment and work area

Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

Training for staff on good practice

Good standard of personal hygiene

Minimization of manual phases

Work procedures minimizing of splashes and spills

Avoidance of contact with contaminated tools and objects

## Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374) and eye protection. Full skin coverage with appropriate light-weight barrier material.

## Exposure estimation and reference to its source

### Environment

Environment PEC = predicted environmental concentration (local); RCR = risk characterisation ratio

Fresh Water (Pelagic)	PEC: 0.094 mg/l; RCR: 0.261
Fresh Water (Sediment)	PEC: 1.328 mg/kg dw; RCR: 0.156
Marine Water (Pelagic)	PEC: 0.009 mg/l; RCR: 0.261
Marine Water (Sediment)	PEC: 0.133 mg/kg dw; RCR: 0.156
Agricultural Soil	PEC: 0.226 mg/kg dw; RCR: 0.152
Sewage Treatment Plant (Effluent)	PEC: 0.94 mg/l; RCR: 0.672

### Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

Usage of release factors allows downstream users to verify in a first approximation, if the combination of local usage and production conditions meets the defined release quantities resulting from this exposure scenario (calculated as  $M(\text{site})$  [see amounts used, contributing scenario 1] x release factor [Technical conditions and measures at process level (source) to prevent release; contributing scenario 1])

### associated uses:

Should consumer uses be associated with this exposure scenario, please contact OQ for further details

Other combinations of operational conditions may also be safe. Please contact OQ in case your local operational conditions differ from the ones described above and you are unsure if they are also safe

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## Number of the ES 3

Short title of the exposure scenario

### Use in Cleaning Products

#### List of use descriptors

#### Sector of uses [SU]

SU22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Process categories [PROC]

PROC1: Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC10: Roller application or brushing

PROC11: Non industrial spraying

PROC13: Treatment of articles by dipping and pouring

PROC15: Use as laboratory reagent

PROC19: Hand-mixing with intimate contact and only PPE available

#### Environmental release categories [ERC]

ERC8a: Wide dispersive indoor use of processing aids in open systems

ERC8d: Wide dispersive outdoor use of processing aids in open systems

#### Product characteristics

Refer to attached safety data sheets

#### Processes and activities covered by the exposure scenario

Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand).

#### Further explanations

Professional use

Human health hazard assessment:

For concentrations below 10 %, the mixture is not hazardous with respect to the substance, no RMM/OCs are necessary

#### Contributing Scenarios

**Number of the contributing scenario**

**1**

**Contributing exposure scenario controlling environmental exposure for  
ERC 8a ERC 8d**

#### Further specification

assessment tool used:, Chesar 2.2.

#### Product characteristics

Covers percentage substance in the product up to 100 % (unless stated differently).

#### Amounts used

daily wide dispersive use: 5.5E-5 to/d

Amounts used (EU): 10 to/a

#### Environment factors not influenced by risk management

River flow rate: 18000 m<sup>3</sup>/d Local freshwater dilution factor: 100 Local marine water dilution factor: 10 3

#### Other given operational conditions affecting environmental exposure

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Indoor/Outdoor use

**Technical conditions and measures at process level (source) to prevent release**

Release fraction to air from process: 100 %  
Release fraction to wastewater from process: 100 %  
Release fraction to soil from process: 0%

**Conditions and measures related to municipal sewage treatment plant**

Size of municipal sewage system/ treatment plant (m<sup>3</sup>/d): 2000  
The minimum grade of elimination in the sewage plant is (%): 87.5

**Conditions and measures related to external treatment of waste for disposal**

none

**Conditions and measures related to external recovery of waste**

none

**Number of the contributing scenario**

2

**Contributing exposure scenario controlling worker exposure for**

**PROC 1, PROC 2, PROC 4, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 13, PROC 15, PROC 19**

**Further specification**

Qualitative approach used to conclude safe use.

**Product characteristics**

Covers percentage substance in the product: >=10 %

**Frequency and duration of use**

8 h (full shift)

**Other given operational conditions affecting workers exposure**

Indoor and outdoor use

**Organisational measures to prevent /limit releases, dispersion and exposure**

Regular cleaning of equipment and work area  
Training for staff on good practice  
Good standard of personal hygiene  
Minimization of manual phases  
Work procedures minimizing of splashes and spills  
Avoidance of contact with contaminated tools and objects  
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

**Conditions and measures related to personal protection, hygiene and health evaluation**

Full skin coverage with appropriate light-weight barrier material. Wear suitable gloves (tested to EN374) and eye protection.

**Environment**

PEC = predicted environmental concentration (local); RCR = risk characterisation ratio

Fresh Water (Pelagic)	PEC: 3.736E-4 mg/l; RCR: < 0.01
Fresh Water (Sediment)	PEC: 0.005 mg/kg dw; RCR: < 0.01
Marine Water (Pelagic)	PEC: 3.693E-5 mg/l; RCR: < 0.01
Marine Water (Sediment)	PEC: 5.215E-4 mg/kg dw; RCR: < 0.01
Agricultural Soil	PEC: 7.794E-4 mg/kg dw; RCR: < 0.01
Sewage Treatment Plant (Effluent)	PEC: 3.45E-5 mg/l; RCR: 2.46E-5

**Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES**

Usage of release factors allows downstream users to verify in a first approximation, if the combination of local usage and production conditions meets the defined release quantities resulting from this exposure scenario (calculated as M(site) [see amounts used, contributing scenario 1] x release factor [Technical conditions and

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measures at process level (source) to prevent release; contributing scenario 1])

## associated uses:

Should consumer uses be associated with this exposure scenario, please contact OQ for further details  
Other combinations of operational conditions may also be safe. Please contact OQ in case your local operational conditions differ from the ones described above and you are unsure if they are also safe

## Number of the ES 4

Short title of the exposure scenario

### Lubricants

### List of use descriptors

#### Sector of uses [SU]

SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites

#### Process categories [PROC]

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

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

#### Environmental release categories [ERC]

ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

#### Product characteristics

Refer to attached safety data sheets

#### Processes and activities covered by the exposure scenario

Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.

#### Further explanations

Industrial use

Human health hazard assessment:

For concentrations below 10 %, the mixture is not hazardous with respect to the substance, no RMM/OCs are necessary

### Contributing Scenarios

**Number of the contributing scenario**

1

**Contributing exposure scenario controlling environmental exposure for  
ERC 4**

#### Further specification

assessment tool used: Chesar 2.2, release factors for (Sp)ERC were modified.

#### Product characteristics

Covers percentage substance in the product up to 100 % (unless stated differently).

#### Amounts used

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Daily amount per site: 5 to

Annual amount per site: 100 to

Fraction of Regional tonnage used locally: 1

**Environment factors not influenced by risk management**

River flow rate: 18000 m<sup>3</sup>/d Local freshwater dilution factor: 10 Local marine water dilution factor: 100

**Other given operational conditions affecting environmental exposure**

Indoor/Outdoor use

**Technical conditions and measures at process level (source) to prevent release**

Release fraction to air from process: 100 %

Release fraction to wastewater from process: 0.3 %

Release fraction to soil from process: 5%

**Conditions and measures related to municipal sewage treatment plant**

Size of municipal sewage system/ treatment plant (m<sup>3</sup>/d): 2000

The minimum grade of elimination in the sewage plant is (%): 100

**Conditions and measures related to external treatment of waste for disposal**

none

**Conditions and measures related to external recovery of waste**

none

**Number of the contributing scenario**

2

**Contributing exposure scenario controlling worker exposure for  
PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13**

**Further specification**

Qualitative approach used to conclude safe use.

**Product characteristics**

Covers percentage substance in the product up to >=10 %

**Frequency and duration of use**

8 h (full shift)

**Other given operational conditions affecting workers exposure**

Indoor and outdoor use

**Organisational measures to prevent /limit releases, dispersion and exposure**

Regular cleaning of equipment and work area

Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

Training for staff on good practice

Good standard of personal hygiene

Minimization of manual phases

Work procedures minimizing of splashes and spills

Avoidance of contact with contaminated tools and objects

**Conditions and measures related to personal protection, hygiene and health evaluation**

Wear suitable gloves (tested to EN374) and eye protection. Full skin coverage with appropriate light-weight barrier material.

**Exposure estimation and reference to its source**

**Environment**

PEC = predicted environmental concentration (local); RCR = risk characterisation ratio

Fresh Water (Pelagic)	PEC: 3.736E-4 mg/l; RCR: < 0.01
Fresh Water (Sediment)	PEC: 0.005 mg/kg dw; RCR: < 0.01
Marine Water (Pelagic)	PEC: 3.693E-5 mg/l; RCR: < 0.01
Marine Water (Sediment)	PEC: 5.215E-4 mg/kg dw; RCR: < 0.01
Agricultural Soil	PEC: 7.794E-4 mg/kg dw; RCR: < 0.01
Sewage Treatment Plant (Effluent)	PEC: 0.003 mg/l; RCR: < 0.01

**Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES**



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Usage of release factors allows downstream users to verify in a first approximation, if the combination of local usage and production conditions meets the defined release quantities resulting from this exposure scenario (calculated as  $M(\text{site})$  [see amounts used, contributing scenario 1] x release factor [Technical conditions and measures at process level (source) to prevent release; contributing scenario 1])

#### **associated uses:**

Should consumer uses be associated with this exposure scenario, please contact OQ for further details  
Other combinations of operational conditions may also be safe. Please contact OQ in case your local operational conditions differ from the ones described above and you are unsure if they are also safe

## **Number of the ES 5**

Short title of the exposure scenario

**Lubricants**

#### **List of use descriptors**

#### **Sector of uses [SU]**

SU22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### **Process categories [PROC]**

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC10: Roller application or brushing

PROC11: Non industrial spraying

PROC13: Treatment of articles by dipping and pouring

#### **Environmental release categories [ERC]**

ERC8a: Wide dispersive indoor use of processing aids in open systems

#### **Product characteristics**

Refer to attached safety data sheets

#### **Processes and activities covered by the exposure scenario**

Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.

#### **Further explanations**

Professional use

Human health hazard assessment:

For concentrations below 10 %, the mixture is not hazardous with respect to the substance, no RMM/OCs are necessary

#### **Contributing Scenarios**

**Number of the contributing scenario**

1

**Contributing exposure scenario controlling environmental exposure for  
ERC 8a**

#### **Further specification**

assessment tool used: Chesar 2.2.

#### **Amounts used**

daily wide dispersive use: 5.5E-5 to/d



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Amounts used (EU): 100 to/a

**Environment factors not influenced by risk management**

River flow rate: 18000 m<sup>3</sup>/d Local freshwater dilution factor: 10 Local marine water dilution factor: 100

**Other given operational conditions affecting environmental exposure**

Indoor/Outdoor use

**Technical conditions and measures at process level (source) to prevent release**

Release fraction to air from process: 1 %

Release fraction to wastewater from process: 1 %

Release fraction to soil from process: 0%

**Conditions and measures related to municipal sewage treatment plant**

Size of industrial sewage treatment plant (m<sup>3</sup>/d): 2000

The minimum grade of elimination in the sewage plant is (%): 87.5

**Conditions and measures related to external treatment of waste for disposal**

none

**Conditions and measures related to external recovery of waste**

none

**Number of the contributing scenario**

2

**Contributing exposure scenario controlling worker exposure for  
PROC 2, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 13, PROC 17**

**Further specification**

Qualitative approach used to conclude safe use.

**Product characteristics**

Covers percentage substance in the product: >=10 %

**Frequency and duration of use**

8 h (full shift)

**Other given operational conditions affecting workers exposure**

Indoor and outdoor use

**Organisational measures to prevent /limit releases, dispersion and exposure**

Regular cleaning of equipment and work area

Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

Training for staff on good practice

Good standard of personal hygiene

Minimization of manual phases

Work procedures minimizing of splashes and spills

Avoidance of contact with contaminated tools and objects

**Conditions and measures related to personal protection, hygiene and health evaluation**

Wear suitable gloves (tested to EN374) and eye protection. Full skin coverage with appropriate light-weight barrier material.

## Exposure estimation and reference to its source

### Environment

Environment PEC = predicted environmental concentration (local); RCR = risk characterisation ratio

Fresh Water (Pelagic)	PEC: 3.736E-4 mg/l; RCR: < 0.01
Fresh Water (Sediment)	PEC: 0.005 mg/kg dw; RCR: < 0.01
Marine Water (Pelagic)	PEC: 3.693E-5 mg/l; RCR: < 0.01
Marine Water (Sediment)	PEC: 5.215E-4 mg/kg dw; RCR: < 0.01
Agricultural Soil	PEC: 7.794E-4 mg/kg dw; RCR: < 0.01
Sewage Treatment Plant (Effluent)	PEC: 0.003 mg/l; RCR: < 0.01

### Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

Usage of release factors allows downstream users to verify in a first approximation, if the combination of local

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usage and production conditions meets the defined release quantities resulting from this exposure scenario (calculated as  $M(\text{site})$  [see amounts used, contributing scenario 1] x release factor [Technical conditions and measures at process level (source) to prevent release; contributing scenario 1])

#### **associated uses:**

Should consumer uses be associated with this exposure scenario, please contact OQ for further details  
Other combinations of operational conditions may also be safe. Please contact OQ in case your local operational conditions differ from the ones described above and you are unsure if they are also safe

## **Number of the ES 6**

Short title of the exposure scenario

**Industrial use resulting in manufacture of another substance (use of intermediates)**

#### **List of use descriptors**

#### **Sector of uses [SU]**

SU8: Manufacture of bulk, large scale chemicals (including petroleum products)  
SU9: Manufacture of fine chemicals  
SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites

#### **Process categories [PROC]**

PROC1: Use in closed process, no likelihood of exposure  
PROC2: Use in closed, continuous process with occasional controlled exposure  
PROC3: Use in closed batch process (synthesis or formulation)  
PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises  
PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities  
PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities  
PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)  
PROC15: Use as laboratory reagent

#### **Environmental release categories [ERC]**

ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)

#### **Product characteristics**

Refer to attached safety data sheets

#### **Processes and activities covered by the exposure scenario**

Use as an intermediate (not related to Strictly Controlled Conditions). Includes incidental exposures during recycling/ recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).

#### **Further explanations**

Industrial use

Human health hazard assessment:

For concentrations below 10 %, the mixture is not hazardous with respect to the substance, no RMM/OCs are necessary

#### **Contributing Scenarios**

**Number of the contributing scenario**

**1**

**Contributing exposure scenario controlling environmental exposure for  
ERC 6a**

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## Further specification

assessment tool used: Chesar 2.2, release factors for (Sp)ERC were modified.

### Product characteristics

Covers percentage substance in the product up to 100 % (unless stated differently).

### Amounts used

Daily amount per site: 5 to

Annual amount per site: 100 to

Fraction of Regional tonnage used locally: 1

### Environment factors not influenced by risk management

River flow rate: 18000 m<sup>3</sup>/d Local freshwater dilution factor: 10 Local marine water dilution factor: 100

### Other given operational conditions affecting environmental exposure

Indoor/Outdoor use

### Technical conditions and measures at process level (source) to prevent release

Release fraction to air from process: 5 %

Release fraction to wastewater from process: 0.3 %

Release fraction to soil from process: 0.1%

### Conditions and measures related to municipal sewage treatment plant

Size of municipal sewage system/ treatment plant (m<sup>3</sup>/d): 2000

The minimum grade of elimination in the sewage plant is (%): 87.5

### Conditions and measures related to external treatment of waste for disposal

none

### Conditions and measures related to external recovery of waste

none

## Number of the contributing scenario

2

### Contributing exposure scenario controlling worker exposure for

**PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9, PROC 15**

## Further specification

Qualitative approach used to conclude safe use.

### Product characteristics

Covers percentage substance in the product: >=10 %

### Frequency and duration of use

8 h (full shift)

### Other given operational conditions affecting workers exposure

Indoor and outdoor use

### Organisational measures to prevent /limit releases, dispersion and exposure

Regular cleaning of equipment and work area

Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

Training for staff on good practice

Good standard of personal hygiene

Minimization of manual phases

Work procedures minimizing of splashes and spills

Avoidance of contact with contaminated tools and objects

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374) and eye protection. Full skin coverage with appropriate light-weight barrier material.

## Exposure estimation and reference to its source

### Environment

Environment PEC = predicted environmental concentration (local); RCR = risk characterisation ratio

Fresh Water (Pelagic) PEC: 0.094 mg/l; RCR: 0.261

Fresh Water (Sediment) PEC: 1.33 mg/kg dw; RCR: 0.156

Marine Water (Pelagic) PEC: 0.009 mg/l; RCR: 0.261

Marine Water (Sediment) PEC: 0.133 mg/kg dw; RCR: 0.156

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Agricultural Soil PEC: 0.213 mg/kg dw; RCR: 0.144  
Sewage Treatment Plant (Effluent) PEC: 0.94 mg/l; RCR: 0.672

## **Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES**

Usage of release factors allows downstream users to verify in a first approximation, if the combination of local usage and production conditions meets the defined release quantities resulting from this exposure scenario (calculated as  $M(\text{site})$  [see amounts used, contributing scenario 1] x release factor [Technical conditions and measures at process level (source) to prevent release; contributing scenario 1])

### **associated uses:**

Should consumer uses be associated with this exposure scenario, please contact OQ for further details. Other combinations of operational conditions may also be safe. Please contact OQ in case your local operational conditions differ from the ones described above and you are unsure if they are also safe.

## **Number of the ES 7**

Short title of the exposure scenario

### **Use in laboratories**

#### **List of use descriptors**

#### **Sector of uses [SU]**

SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites

#### **Process categories [PROC]**

PROC10: Roller application or brushing  
PROC15: Use as laboratory reagent

#### **Environmental release categories [ERC]**

ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

#### **Product characteristics**

Refer to attached safety data sheets

#### **Processes and activities covered by the exposure scenario**

Use of small quantities within laboratory settings, including material transfers and equipment cleaning

#### **Further explanations**

Industrial use

Human health hazard assessment:

For concentrations below 10 %, the mixture is not hazardous with respect to the substance, no RMM/OCs are necessary

#### **Contributing Scenarios**

#### **Number of the contributing scenario**

1

#### **Contributing exposure scenario controlling environmental exposure for ERC 4**

#### **Further specification**

assessment tool used: Chesar 2.2, release factors for (Sp)ERC were modified.

#### **Product characteristics**

Covers percentage substance in the product up to 100 % (unless stated differently).

#### **Amounts used**

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Daily amount per site: 1 to  
Annual amount per site: 20 to  
Fraction of Regional tonnage used locally: 1

**Environment factors not influenced by risk management**

River flow rate: 18000 m<sup>3</sup>/d Local freshwater dilution factor: 10 Local marine water dilution factor: 100

**Other given operational conditions affecting environmental exposure**

Indoor/Outdoor use

**Technical conditions and measures at process level (source) to prevent release**

Release fraction to air from process: 100 %  
Release fraction to wastewater from process: 1.5 %  
Release fraction to soil from process: 5%

**Conditions and measures related to municipal sewage treatment plant**

Size of municipal sewage system/ treatment plant (m<sup>3</sup>/d): 2000  
The minimum grade of elimination in the sewage plant is (%): 87.5

**Conditions and measures related to external treatment of waste for disposal**

none

**Conditions and measures related to external recovery of waste**

none

**Number of the contributing scenario**

2

**Contributing exposure scenario controlling worker exposure for  
PROC 10, PROC 15**

**Further specification**

Qualitative approach used to conclude safe use.

**Product characteristics**

Covers percentage substance in the product: >=10 %

**Frequency and duration of use**

8 h (full shift)

**Other given operational conditions affecting workers exposure**

Indoor and outdoor use

**Organisational measures to prevent /limit releases, dispersion and exposure**

Regular cleaning of equipment and work area  
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.  
Training for staff on good practice  
Good standard of personal hygiene  
Minimization of manual phases  
Work procedures minimizing of splashes and spills  
Avoidance of contact with contaminated tools and objects

**Conditions and measures related to personal protection, hygiene and health evaluation**

Wear suitable gloves (tested to EN374) and eye protection. Full skin coverage with appropriate light-weight barrier material.

**Environment**

PEC = predicted environmental concentration (local); RCR = risk characterisation ratio

Fresh Water (Pelagic)	PEC: 0.094 mg/l; RCR: 0.261
Fresh Water (Sediment)	PEC: 1.328 mg/kg dw; RCR: 0.156
Marine Water (Pelagic)	PEC: 0.009 mg/l; RCR: 0.261
Marine Water (Sediment)	PEC: 0.133 mg/kg dw; RCR: 0.156
Agricultural Soil	PEC: 0.215 mg/kg dw; RCR: 0.145
Sewage Treatment Plant (Effluent)	PEC: 0.94 mg/l; RCR: 0.672

**Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES**

Usage of release factors allows downstream users to verify in a first approximation, if the combination of local usage and production conditions meets the defined release quantities resulting from this exposure scenario (calculated as M(site) [see amounts used, contributing scenario 1] x release factor [Technical conditions and

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measures at process level (source) to prevent release; contributing scenario 1])

## **associated uses:**

Should consumer uses be associated with this exposure scenario, please contact OQ for further details  
Other combinations of operational conditions may also be safe. Please contact OQ in case your local operational conditions differ from the ones described above and you are unsure if they are also safe

## **Number of the ES 8**

Short title of the exposure scenario

**Industrial processing of articles**

## **List of use descriptors**

### **Sector of uses [SU]**

SU7: Printing and reproduction of recorded media  
SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites

### **Process categories [PROC]**

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)  
PROC13: Treatment of articles by dipping and pouring

### **Environmental release categories [ERC]**

ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

### **Product characteristics**

Refer to attached safety data sheets

### **Processes and activities covered by the exposure scenario**

Exposing, developing, bleaching, fixing, washing and drying in dedicated equipment

### **Further explanations**

Industrial use  
Human health hazard assessment:  
For concentrations below 10 %, the mixture is not hazardous with respect to the substance, no RMM/OCs are necessary

## **Contributing Scenarios**

**Number of the contributing scenario**

**1**

**Contributing exposure scenario controlling environmental exposure for  
ERC 4**

### **Further specification**

assessment tool used: Chesar 2.2, release factors for (Sp)ERC were modified.

#### **Product characteristics**

Covers percentage substance in the product up to 100 % (unless stated differently).

#### **Amounts used**

Daily amount per site: 0.5 to

Annual amount per site: 10 to

Fraction of Regional tonnage used locally: 1

#### **Environment factors not influenced by risk management**

River flow rate: 18000 m<sup>3</sup>/d

Local freshwater dilution factor: 10

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Local marine water dilution factor: 100

**Other given operational conditions affecting environmental exposure**

Indoor/Outdoor use

**Technical conditions and measures at process level (source) to prevent release**

Release fraction to air from process: 100 %

Release fraction to wastewater from process: 3 %

Release fraction to soil from process: 5%

**Conditions and measures related to municipal sewage treatment plant**

Size of municipal sewage system/ treatment plant (m<sup>3</sup>/d): 2000

The minimum grade of elimination in the sewage plant is (%): 87.5

**Conditions and measures related to external treatment of waste for disposal**

none

**Conditions and measures related to external recovery of waste**

none

**Number of the contributing scenario**

2

**Contributing exposure scenario controlling worker exposure for PROC 5, PROC 13**

**Further specification**

Qualitative approach used to conclude safe use.

**Product characteristics**

Covers percentage substance in the product: >=10 %

**Frequency and duration of use**

8 h (full shift)

**Other given operational conditions affecting workers exposure**

Indoor and outdoor use

**Organisational measures to prevent /limit releases, dispersion and exposure**

Regular cleaning of equipment and work area

Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

Training for staff on good practice

Good standard of personal hygiene

Minimization of manual phases

Work procedures minimizing of splashes and spills

Avoidance of contact with contaminated tools and objects

**Conditions and measures related to personal protection, hygiene and health evaluation**

Wear suitable gloves (tested to EN374) and eye protection. Full skin coverage with appropriate light-weight barrier material.

**Exposure estimation and reference to its source**

**Environment**

Environment PEC = predicted environmental concentration (local); RCR = risk characterisation ratio

Fresh Water (Pelagic)	PEC: 0.094 mg/l; RCR: 0.261
Fresh Water (Sediment)	PEC: 1.328 mg/kg dw; RCR: 0.156
Marine Water (Pelagic)	PEC: 0.009 mg/l; RCR: 0.261
Marine Water (Sediment)	PEC: 0.133 mg/kg dw; RCR: 0.156
Agricultural Soil	PEC: 0.214 mg/kg dw; RCR: 0.144
Sewage Treatment Plant (Effluent)	PEC: 0.94 mg/l; RCR: 0.672

**Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES**

Usage of release factors allows downstream users to verify in a first approximation, if the combination of local usage and production conditions meets the defined release quantities resulting from this exposure scenario (calculated as M(site) [see amounts used, contributing scenario 1] x release factor [Technical conditions and



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measures at process level (source) to prevent release; contributing scenario 1])

## associated uses:

Should consumer uses be associated with this exposure scenario, please contact OQ for further details  
Other combinations of operational conditions may also be safe. Please contact OQ in case your local operational conditions differ from the ones described above and you are unsure if they are also safe

## Number of the ES 9

Short title of the exposure scenario

### Industrial processing of articles

#### List of use descriptors

#### Sector of uses [SU]

SU7: Printing and reproduction of recorded media

SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites

#### Process categories [PROC]

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

PROC13: Treatment of articles by dipping and pouring

#### Environmental release categories [ERC]

ERC5: Industrial use resulting in inclusion into or onto a matrix

#### Product characteristics

Refer to attached safety data sheets

#### Processes and activities covered by the exposure scenario

Exposing, developing, bleaching, fixing, washing and drying in dedicated equipment

#### Further explanations

Industrial use

For concentrations below 10 %, the mixture is not hazardous with respect to the substance, no RMM/OCs are necessary

#### Contributing Scenarios

**Number of the contributing scenario**

1

**Contributing exposure scenario controlling environmental exposure for  
ERC 5**

#### Further specification

assessment tool used: Chesar 2.2, release factors for (Sp)ERC were modified.

#### Product characteristics

Covers percentage substance in the product up to 100 % (unless stated differently).

#### Amounts used

Daily amount per site: 0.5 to

Annual amount per site: 10 to

Fraction of Regional tonnage used locally: 1

#### Environment factors not influenced by risk management

River flow rate: 18000 m<sup>3</sup>/d

Local freshwater dilution factor: 10

Local marine water dilution factor: 100

#### Other given operational conditions affecting environmental exposure



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Indoor/Outdoor use

**Technical conditions and measures at process level (source) to prevent release**

Release fraction to air from process: 50 %  
Release fraction to wastewater from process: 3 %  
Release fraction to soil from process: 1%

**Conditions and measures related to municipal sewage treatment plant**

Size of industrial sewage treatment plant (m<sup>3</sup>/d): 2000  
The minimum grade of elimination in the sewage plant is (%): 87.5

**Conditions and measures related to external treatment of waste for disposal**

none

**Conditions and measures related to external recovery of waste**

none

**Number of the contributing scenario** 2

**Contributing exposure scenario controlling worker exposure for  
PROC 5, PROC 13**

**Further specification**

Qualitative approach used to conclude safe use.

**Product characteristics**

Covers percentage substance in the product: >=10 %

**Frequency and duration of use**

8 h (full shift)

**Other given operational conditions affecting workers exposure**

Indoor and outdoor use

**Organisational measures to prevent /limit releases, dispersion and exposure**

Regular cleaning of equipment and work area  
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.  
Training for staff on good practice  
Good standard of personal hygiene  
Minimization of manual phases  
Work procedures minimizing of splashes and spills  
Avoidance of contact with contaminated tools and objects

**Conditions and measures related to personal protection, hygiene and health evaluation**

Wear suitable gloves (tested to EN374), coverall and eye protection. Wear suitable gloves (tested to EN374) and eye protection. Full skin coverage with appropriate light-weight barrier material.

## Exposure estimation and reference to its source

### Environment

Environment PEC = predicted environmental concentration (local); RCR = risk characterisation ratio

Fresh Water (Pelagic)	PEC: 0.094 mg/l; RCR: 0.261
Fresh Water (Sediment)	PEC: 1.328 mg/kg dw; RCR: 0.156
Marine Water (Pelagic)	PEC: 0.009 mg/l; RCR: 0.261
Marine Water (Sediment)	PEC: 0.133 mg/kg dw; RCR: 0.156
Air	PEC: .?1 mg/m <sup>3</sup> ; RCR: .?2
Agricultural Soil	PEC: 0.213 mg/kg dw; RCR: 0.144
Sewage Treatment Plant (Effluent)	PEC: 0.94 mg/l; RCR: 0.672

### Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

Usage of release factors allows downstream users to verify in a first approximation, if the combination of local usage and production conditions meets the defined release quantities resulting from this exposure scenario (calculated as M(site) [see amounts used, contributing scenario 1] x release factor [Technical conditions and measures at process level (source) to prevent release; contributing scenario 1])

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## associated uses:

Should consumer uses be associated with this exposure scenario, please contact OQ for further details  
Other combinations of operational conditions may also be safe. Please contact OQ in case your local operational conditions differ from the ones described above and you are unsure if they are also safe

## Number of the ES 10

Short title of the exposure scenario

**Industrial processing of articles**

## List of use descriptors

### Sector of uses [SU]

SU7: Printing and reproduction of recorded media

SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites

### Process categories [PROC]

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

PROC13: Treatment of articles by dipping and pouring

### Environmental release categories [ERC]

ERC6b: Industrial use of reactive processing aids

### Product characteristics

Refer to attached safety data sheets

### Processes and activities covered by the exposure scenario

Exposing, developing, bleaching, fixing, washing and drying in dedicated equipment

### Further explanations

Industrial use

Human health hazard assessment:

For concentrations below 10 %, the mixture is not hazardous with respect to the substance, no RMM/OCs are necessary

## Contributing Scenarios

**Number of the contributing scenario**

**1**

**Contributing exposure scenario controlling environmental exposure for  
ERC 6b**

### Further specification

assessment tool used: Chesar 2.2, release factors for (Sp)ERC were modified.

#### Product characteristics

Covers percentage substance in the product up to 100 % (unless stated differently).

#### Amounts used

Daily amount per site: 0.5 to

Annual amount per site: 10 to

Fraction of Regional tonnage used locally: 1

#### Environment factors not influenced by risk management

River flow rate: 18000 m<sup>3</sup>/d

Local freshwater dilution factor: 10

Local marine water dilution factor: 100

#### Other given operational conditions affecting environmental exposure

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Indoor/Outdoor use

**Technical conditions and measures at process level (source) to prevent release**

Release fraction to air from process: 0.025 %

Release fraction to wastewater from process: 3 %

Release fraction to soil from process: 0.1%

**Conditions and measures related to municipal sewage treatment plant**

Size of industrial sewage treatment plant (m<sup>3</sup>/d): 2000

The minimum grade of elimination in the sewage plant is (%): 87.5

**Conditions and measures related to external treatment of waste for disposal**

none

**Conditions and measures related to external recovery of waste**

none

**Number of the contributing scenario**

2

**Contributing exposure scenario controlling worker exposure for  
PROC 5, PROC 13**

**Further specification**

Qualitative approach used to conclude safe use.

**Product characteristics**

Covers percentage substance in the product: >=10 %

**Frequency and duration of use**

8 h (full shift)

**Other given operational conditions affecting workers exposure**

Indoor and outdoor use

**Organisational measures to prevent /limit releases, dispersion and exposure**

Regular cleaning of equipment and work area

Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

Training for staff on good practice

Good standard of personal hygiene

Minimization of manual phases

Work procedures minimizing of splashes and spills

Avoidance of contact with contaminated tools and objects

**Conditions and measures related to personal protection, hygiene and health evaluation**

Wear suitable gloves tested to EN374. Wear suitable gloves (tested to EN374) and eye protection. Full skin coverage with appropriate light-weight barrier material.

**Frequency and duration of use**

8 h (full shift)

**Exposure estimation and reference to its source**

**Environment**

Environment PEC = predicted environmental concentration (local); RCR = risk characterisation ratio

Fresh Water (Pelagic)	PEC: 0.094 mg/l; RCR: 0.261
Fresh Water (Sediment)	PEC: 1.33 mg/kg dw; RCR: 0.156
Marine Water (Pelagic)	PEC: 0.009 mg/l; RCR: 0.261
Marine Water (Sediment)	PEC: 0.133 mg/kg dw; RCR: 0.156
Agricultural Soil	PEC: 0.212 mg/kg dw; RCR: 0.143
Sewage Treatment Plant (Effluent)	PEC: 0.94 mg/l; RCR: 0.671

**Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES**

Usage of release factors allows downstream users to verify in a first approximation, if the combination of local usage and production conditions meets the defined release quantities resulting from this exposure scenario (calculated as M(site) [see amounts used, contributing scenario 1] x release factor [Technical conditions and

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measures at process level (source) to prevent release; contributing scenario 1])

**associated uses:**

Should consumer uses be associated with this exposure scenario, please contact OQ for further details  
Other combinations of operational conditions may also be safe. Please contact OQ in case your local operational conditions differ from the ones described above and you are unsure if they are also safe