

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

1.1. Product identifier

Product name: Ortho-Cresol CAS Number: 95-48-7 EC Number: 202-423-8

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

Product use: Laboratory chemicals, Industrial & for professional

use only

1.3 Details of the supplier of the safety data sheet

Company name: East Harbour Group Ltd

20 Clough Road, Severalls Industrial Park

Colchester, Essex, CO4 9QS

United Kingdom

**Telephone:** +44 (0) 333 242 0100

Email: <a href="mailto:info@eastharbourgroup.com">info@eastharbourgroup.com</a>

1.4 Emergency telephone number

Emergency telephone: 0800 246 1274

#### Section 2: Hazardous identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Acute toxicity, Oral (Category 3), H301 Acute toxicity, Dermal (Category 3), H311 Skin corrosion (Sub-category 1B), H314

Serious eye damage (Category 1), H318

Long-term (chronic) aquatic hazard (Category 3), H412

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

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Pictogram



Signal Word

Danger



Hazard statement(s)

H301 + H311 Toxic if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P260 Do not breathe dust.
P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection

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

clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Immediately call a POISON CENTER/ doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

none

**Supplemental Hazard Statements** 

Reduced Labelling (<= 125 ml)

Pictogram

Signal Word Danger

Hazard statement(s)

P305 + P351 + P338

H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.
H301 + H311 Toxic if swallowed or in contact with skin.

Precautionary statement(s)

P260 Do not breathe dust.

P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection.

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

clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue

rinsing.

Supplemental Hazard Statements none

2.3 Other hazards

P305 + P351 + P338

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

**Ecological information:** 



The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **Toxicological information:**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Section 3: Composition/information on ingredients

#### 3.1 Substances

Synonyms: 2-Methylphenol

Formula: C7H8O ...

Molecular weight: 108.14 g/mol ...

CAS-No.: 95-48-7 ...

EC-No.: 202-423-8

Component		Classification	Concentration	
o-cresol				
CAS-No.	95-48-7	· · · · · · · · · · · · · · · · · · ·	<= 100 %	
EC-No.	202-423-8	Aquatic Chronic 3; H301, H311,		
		H314, H318, H412		

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 General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

### If inhaled

After inhalation: fresh air. Call in physician.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

#### If swallowed

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.

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



The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

### Section 5: Fire-fighting measures

## 5.1 Fire Fighting Media and Instructions:

### Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

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

Carbon oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

#### 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### 5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

### Section 6: Accidental release measures

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

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

# 6.2 Environmental precautions

Do not let product enter drains.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

## 6.4 Reference to other sections

For disposal see section 13.



#### Section 7: Handling and storage

#### 7.1 Precautions for safe handling

#### Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities Storage conditions

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Air and light sensitive. Store under nitrogen.

#### Storage class

Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### Section 8: Exposure controls/personal protection

#### 8.1 Control parameters

# Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### **Derived No Effect Level (DNEL)**

Application Area	Routes of exposure	Health effect	Value
Worker DNEL, acute	inhalation	Systemic effects	153 mg/m3
Worker DNEL, acute	dermal	Systemic effects	
Worker DNEL, long-term	inhalation	Systemic effects	3.5 mg/m3
Worker DNEL, long-term	dermal	Systemic effects	
Consumer DNEL, acute	oral, dermal	Systemic effects	
Consumer DNEL, acute	inhalation	Systemic effects	105 mg/m3
Consumer DNEL, long-term	oral, dermal	Systemic effects	
Consumer DNEL, long-term	inhalation	Systemic effects	0.75 mg/m3

#### **Predicted No Effect Concentration (PNEC)**

Compartment	Value
Fresh water	0.1 mg/l
Sea water	0.01 mg/l
Aquatic intermittent release	0.062 mg/l
Sewage treatment plant	1.28 mg/l
Fresh water sediment	0.58 mg/kg

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Sea sediment	0.058 mg/kg
Soil	0.0572 mg/kg

#### 8.2 Exposure controls

#### Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

#### Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Chloroprene

Minimum layer thickness: 0.65 mm Break through time: 480 min

Material tested: KCL 720 Camapren®

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de). Splash contact

Material: Latex gloves

Minimum layer thickness: 0.6 mm Break through time: 60 min.

Material tested: Lapren® (KCL 706 / Aldrich Z677558, Size M)

#### **Body Protection**

Flame retardant antistatic protective clothing.

#### **Respiratory protection**

Recommended Filter type: Filter A-(P3)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

#### Control of environmental exposure

Do not let product enter drains.

### Section 9: Physical and chemical properties

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

a) Physical stateb) Colorpowderwhite

c) Odor No data available

d) Melting point/freezing point Melting point/range: 30 - 34 °C

e) Initial boiling point and boiling range 191 °C - lit. f) Flammability (solid, gas) No data available

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g) Upper/lower flammability or explosive limits

h) Flash point

i) Autoignition temperature

i) Decomposition temperature

k) pH

I) Viscosity

m) Water solubility n) Partition coefficient: n-octanol/water

o) Vapor pressure

p) Density

Relative density

q) Relative vapor density

r) Particle characteristics s) Explosive properties

t) Oxidizing properties

Upper explosion limit: 58 %(V) Lower explosion limit: 1.3 %(V)

81.0 °C - closed cup

599.0 °C

No data available 4.5 at 25.00000 g/l

Viscosity, kinematic: No data available Viscosity, dynamic: No data available

25 g/l at 20 °C No data available

3.1 hPa at 60.0 °C 1.3 hPa at 38.2 °C 0.4 hPa at 20.0 °C 1.048 g/cm3 at 25 °C No data available No data available No data available No data available

none

# 9.2 Other safety information

No data available

### Section 10: Stability and Reactivity

### 10.1 Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

#### 10.3 Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents Nitric acid fuming sulfuric acid

#### 10.4 Conditions to avoid

Strong heating.

### 10.5 Incompatible materials

Aluminium, Strong oxidizing agents

#### 10.6 Hazardous decomposition products

In the event of fire: see section 5



### **Section 11: Toxicological Information**

#### 11.1 Toxicological effects:

**Acute toxicity** 

LD50 Oral - Rat - 121.0 mg/kg

Remarks: Behavioural: Convulsions or effect on seizure threshold.

Lungs, Thorax, or Respiration: Dyspnoea.

Gastrointestinal: Ulceration or bleeding from stomach.

(RTECS)

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the

esophagus and the stomach.

Acute toxicity estimates Oral - 121 mg/kg (ATE value derived from LD50/LC50 value)

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of

respiratory tract

LD50 Dermal - Rat - 620.0 mg/kg

Remarks: (RTECS)

Acute toxicity estimates Dermal - 620 mg/kg (ATE value derived from LD50/LC50 value)

#### Skin corrosion/irritation

Remarks: Causes skin burns.

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

### Serious eye damage/eye irritation

Remarks: Causes serious eye damage.

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

## Respiratory or skin sensitization

No data available

Germ cell mutagenicity

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: positive

# Carcinogenicity

No data available

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#### Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

**Aspiration hazard** 

No data available

11.2 Additional Information Endocrine disrupting properties

**Product:** 

Assessment: The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or

Commission Delegated regulation (EU) 2017/2100 or Commission Regulation

(EU) 2018/605 at levels of 0.1% or higher.

Repeated dose toxicity - Rat - male and female - Oral - 13 Weeks - NOAEL (No observed

adverse effect level) - 50 mg/kg

Remarks: (ECHA)

RTECS: GO6300000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Central nervous system depression, Diarrhea, Gastrointestinal disturbance To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### Systemic effects:

Headache Nausea Vomiting Dizziness agitation, spasms cardiovascular disorders

#### After absorption:

#### Damage to:

Central nervous system Liver Kidney

Other dangerous properties cannot be excluded.

This substance should be handled with particular care.

Section 12: Ecological Information



12.1 Toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 8.4 mg/l - 96 h

Remarks: (ECOTOX Database)

Toxicity to daphnia

static test EC50 - Daphnia magna (Water flea) - 15.7 mg/l - 48 h

and other aquatic Remarks: (ECHA)

invertebrates The value is given in analogy to the following substances: p-cresol

semi-static test NOEC - Daphnia - 1 mg/l - 21 d

Remarks:

Toxicity to algae static test ErC50 - SELENASTRUM - 100.00 mg/l - 96 h

Remarks: (ECHA)

Toxicity to bacteria EC50 - Photobacterium phosphoreum - 32 mg/l - 30 min

Remarks: (IUCLID)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 7 d

Result: 100 % - Inherently biodegradable.

(OECD Test Guideline 302B)

Theoretical oxygen 2,520 mg/g
Demand Remarks: (Lit.)

Ratio BOD/ThBOD 65 %

Remarks: (Lit.)

12.3 Bio accumulative potential

Bioaccumulation Danio rerio (zebra fish) (o-cresol)

Bioconcentration factor (BCF): 10.7

(OECD Test Guideline 305)

12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

# 12.6 Endocrine disrupting properties

**Product:** 

Assessment: The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Biological effects:

Hazard for drinking water supplies.

Change in the flavour characteristics of fish protein. Discharge into the environment must be avoided.

**Section 13: Disposal considerations** 



# 13.1 Waste treatment methods Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. Notice Directive on waste 2008/98/EC.

## **Section 14: Transport Information**

14.1 UN number

ADR/RID: 3455 IMDG: 3455 IATA: 3455

14.2 UN proper shipping name

ADR/RID: CRESOLS, SOLID IMDG: CRESOLS, SOLID IATA: Cresols, solid

14.3 Transport hazard class(es)

ADR/RID: 6.1 (8) IMDG: 6.1 (8) IATA: 6.1 (8)

14.4 Packaging group

ADR/RID: II IMDG: II IATA: II

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

Tunnel restriction code: (D/E)

Further information: No data available

#### **Section 15: Regulatory Information**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

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

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.

#### **Section 16: Other Information**

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

H301 Toxic if swallowed.

H301 + H311 Toxic if swallowed or in contact with skin.

H311 Toxic in contact with skin.

H314 Toxic if swallowed or in contact with skin.

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H318 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland

Waterways. ADR - 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.

CMR Carcinogen, Mutagen or Reproductive Toxicant.

DIN Standard of the German Institute for Standardisation.

DSL Domestic Substances List (Canada).

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.

IMDGInternational Maritime Dangerous Goods.IMOInternational Maritime Organization.ISHLIndustrial Safety and Health Law (Japan).ISOInternational Organisation for Standardization.

KECI Korea Existing Chemicals Inventory.

LC50 Lethal Concentration to 50 % of a test population.

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose).

MARPOL International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise

Specified.

NO(A)EC No Observed (Adverse) Effect Concentration.

NO(A)EL No Observed (Adverse) Effect Level.
NOELR No Observable Effect Loading Rate.
NZIOC New Zealand Inventory of Chemicals.

OECD Organization for Economic Co-operation and Development; OPPTS - Office of Chemical

Safety and Pollution Prevention.

PBT Persistent, Bioaccumulative and Toxic substance.

PICCS Philippines Inventory of Chemicals and Chemical Substances.

(Q)SAR (Quantitative) Structure Activity Relationship.

REACH Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning

the Registration, Evaluation, Authorisation and Restriction of Chemicals.

RID Regulations concerning the International Carriage of Dangerous Goods by Rail.

SADT Self-Accelerating Decomposition Temperature.

SDS Safety Data Sheet.

TCSI Taiwan Chemical Substance Inventory.
TECI Thailand Existing Chemicals Inventory.
TSCA Toxic Substances Control Act (United States).

UN United Nations.

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UNRTDG United Nations Recommendations on the Transport of Dangerous Goods.

vPvB Very Persistent and Very Bio accumulative.

Annex: Exposure scenario

Identified uses: Use: Industrial use

SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites

SU 3, SU9, SU 10: Industrial uses: Uses of substances as such or in preparations at industrial sites,

Manufacture of fine chemicals, Formulation [mixing] of preparations and/ or

re-packaging (excluding alloys)

PC19: Intermediate

PC21: Laboratory chemicals

**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 PROC5: Mixing or blending in batch processes for formulation of preparations and articles

(multistage and/ or significant contact)

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 PROC15: Use as laboratory reagent

ERC2, ERC4, ERC6a: Formulation of preparations, Industrial use of processing aids in processes and

products, not becoming part of articles, Industrial use resulting in manufacture of

another substance (use of intermediates)

Use: Professional use

**SU 22:** Professional uses: Public domain (administration, education, entertainment,

services, craftsmen)

PC21: Laboratory chemicals PROC15: Use as laboratory reagent

**ERC2**, **ERC6a**: Formulation of preparations, Industrial use resulting in manufacture of

another substance (use of intermediates)

1. Short title of Exposure Scenario: Industrial use

Main User Groups: SU 3

Sectors of end-use: SU 3, SU9, SU 10 Chemical product category: PC19, PC21

Process categories: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8b, PROC9,

PROC10, PROC15

Environmental Release Categories: ERC2, ERC4, ERC6a:

2. Exposure scenario

2.1 Contributing scenario controlling environmental exposure for: ERC2, ERC4

Amount used

Annual amount per site: 5000 t

Other given operational conditions affecting environmental exposure

Number of emission days per year: 300 Emission or Release Factor: Air: 0 %

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Emission or Release Factor: 0 %

Water

Emission or Release Factor: Soil: 0 %

2.1 Contributing scenario controlling environmental exposure for: ERC6a

**Amount used** 

Annual amount per site: 80 t

Environment factors not influenced by risk management

Flow rate: 50,000 m3/d

Dilution Factor (River): 40
Dilution Factor (Coastal Areas): 100

Other given operational conditions affecting environmental exposure

Continuous exposure

Number of emission days per year: 16
Emission or Release Factor: Air: 0 %
Emission or Release Factor: 2 %

Water

Emission or Release Factor: Soil: 0.01 %

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant: Municipal sewage treatment plant

Flow rate of sewage treatment 10,000 m3/d

plant effluent

Percentage removed from waste 87.5 %

Water

2.1 Contributing scenario controlling environmental exposure for: ERC6a

**Amount used** 

Annual amount per site: 400 t

Environment factors not influenced by risk management

Flow rate: 50,000 m3/d

Dilution Factor (River): 40
Dilution Factor (Coastal Areas): 100

Other given operational conditions affecting environmental exposure

Continuous exposure

Number of emission days per year: 80 Emission or Release Factor: Air: 0 % Emission or Release Factor: 2 %

Water

Emission or Release Factor: Soil: 0.01 %

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant: Municipal sewage treatment plant

Flow rate of sewage treatment 10,000 m3/d

plant effluent

Percentage removed from waste: 87.5 %

Water

2.1 Contributing scenario controlling environmental exposure for: ERC6a

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**Amount used** 

Annual amount per site: 1200t

Environment factors not influenced by risk management

Flow rate: 50,000 m3/d

Dilution Factor (River): 40
Dilution Factor (Coastal Areas): 100

Other given operational conditions affecting environmental exposure

Continuous exposure

Number of emission days per year: 120 Emission or Release Factor: Air: 0 % Emission or Release Factor: 0.05 %

Water

Emission or Release Factor: Soil: 0.01 %

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant: Municipal sewage treatment plant

Flow rate of sewage treatment

plant effluent

Percentage removed from waste

Water

10,000 m3/d

87.5 %

2.5 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8b, PROC9, PROC10, PROC15

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product

Mixture/Article up to 100 % (unless stated differently).

Physical Form (at time of use): Low volatile liquid

Process Temperature: < 70 °C

Frequency and duration of use

Frequency of use: 8 hours/day Frequency of use: 230 days/year

Other operational conditions affecting workers exposure

Outdoor / Indoor: Indoor without local exhaust ventilation (LEV)

Organizational measures to prevent /limit releases, dispersion and exposure

Covers daily exposures up to 8 hours.

Additional good practice advice beyond the REACH Chemical Safety Assessment

Wear suitable gloves (tested to EN374) and eye protection.

2.6 Contributing scenario controlling worker exposure for: PROC5

**Product characteristics** 

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Concentration of the Substance in Covers the percentage of the substance in the product

Mixture/Article up to 100 % (unless stated differently).

Physical Form (at time of use): Low volatile liquid

Process Temperature: < 70 °C

Frequency and duration of use



Frequency of use: 8 hours/day

Other operational conditions affecting workers exposure

Outdoor / Indoor: Indoor with local exhaust ventilation (LEV)

Organizational measures to prevent /limit releases, dispersion and exposure Covers daily exposures up to 8 hours.

Conditions and measures related to personal protection, hygiene and health evaluation Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

Additional good practice advice beyond the REACH Chemical Safety Assessment Use suitable eye protection.

### 3. Exposure estimation and reference to its source

#### **Environment**

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR*
ERC2	Qualitative assessment used to conclude safe use.		All compartments			< 1
ERC4	Qualitative assessment used to conclude safe use.		All compartments			< 1
ERC6a	EUSES		All compartments			< 1
ERC6a	EUSES		All compartments			< 1
ERC6a	EUSES		All compartments			< 1

#### Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR*
PROC1	Measured data	long-term, inhalative, systemic				< 1
PROC1	ECETOC TRA	long-term, dermal, systemic				< 1
PROC2	Measured data	long-term, inhalative, systemic				< 1
PROC2	ECETOC TRA	long-term, dermal, systemic				< 1
PROC3	Measured data	long-term, inhalative, systemic				< 1
PROC3	ECETOC TRA	long-term, dermal, systemic	DF.			< 1
PROC4	Measured data	long-term, inhalative, systemic				< 1
PROC4	ECETOC TRA	long-term, dermal, systemic				< 1
PROC8b	Measured data	long-term, inhalative, systemic				< 1
PROC8b	ECETOC TRA	long-term, dermal,				< 1

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		systemic	
PROC9	Measured data	long-term, inhalative, systemic	< 1
PROC9	ECETOC TRA	long-term, dermal, systemic	< 1
PROC10	Measured data	long-term, inhalative, systemic	< 1
PROC10	ECETOC TRA	long-term, dermal, systemic	< 1
PROC15	Measured data	long-term, inhalative, systemic	< 1
PROC15	ECETOC TRA	long-term, dermal, systemic	< 1

<sup>\*</sup>Risk characterisation ratio

PROC5	ECETOC TRA	long-term, inhalative, systemic		0.64
PROC5	ECETOC TRA	long-term, dermal, systemic		0.27
PROC5	ECETOC TRA	longterm, combined, systemic		0.92

<sup>\*</sup>Risk characterisation ratio

# 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Please refer to the following documents: ECHA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system; ECHA Guidance for downstream users; ECHA Guidance on information requirements and chemical safety assessment Part D: Exposure Scenario Building, Part E: Risk Characterisation and Part G: Extending the SDS; VCI/Cefic REACH Practical Guides on Exposure Assessment and Communications in the Supply Chain; CEFIC Guidance Specific Environmental Release Categories (SPERCs).

#### 1. Short title of Exposure Scenario: Professional use

Main User Groups:
Sectors of end-use:
Chemical product category:
Process categories:
Environmental Release Categories:
SU 22
SU 22
PC21
PROC15
ERC2, ERC6a:

#### 2. Exposure scenario

2.1 Contributing scenario controlling environmental exposure for: ERC2

**Amount used** 

Annual amount per site: 5000 t

#### Other given operational conditions affecting environmental exposure

Number of emission days per year: 300
Emission or Release Factor: Air: 0 %
Emission or Release Factor: 0 %
Water

vater \_ .

Emission or Release Factor: Soil: 0 %

2.1 Contributing scenario controlling environmental exposure for: ERC6a

# ORTHO-CRESOL



**Amount used** 

Annual amount per site: 80 t

Environment factors not influenced by risk management

Flow rate: 50,000 m3/d

Dilution Factor (River): 40
Dilution Factor (Coastal Areas): 100

Other given operational conditions affecting environmental exposure

Continuous exposure

Number of emission days per year: 16
Emission or Release Factor: Air: 0 %
Emission or Release Factor: 2 %

Water

Emission or Release Factor: Soil: 0.01 %

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant: Municipal sewage treatment plant

Flow rate of sewage treatment 10,000 m3/d

plant effluent

Percentage removed from waste 87.5 %

Water

2.1 Contributing scenario controlling environmental exposure for: ERC6a

**Amount used** 

Annual amount per site: 400 t

Environment factors not influenced by risk management

Flow rate: 50,000 m3/d

Dilution Factor (River): 40
Dilution Factor (Coastal Areas): 100

Other given operational conditions affecting environmental exposure

Continuous exposure

Number of emission days per year: 80 Emission or Release Factor: Air: 0 % Emission or Release Factor: 2 %

Water

Emission or Release Factor: Soil: 0.01 %

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant: Municipal sewage treatment plant

Flow rate of sewage treatment

plant effluent

10,000 m3/d

Percentage removed from waste 87.5 %

Water

2.1 Contributing scenario controlling environmental exposure for: ERC6a

**Amount used** 

Annual amount per site: 1200 t

Environment factors not influenced by risk management

Flow rate: 50,000 m3/d



Dilution Factor (River): 40
Dilution Factor (Coastal Areas): 100

#### Other given operational conditions affecting environmental exposure

Continuous exposure

Number of emission days per year: 120 Emission or Release Factor: Air: 0 % Emission or Release Factor: 0.05 %

Water

Emission or Release Factor: Soil: 0.01 %

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

Type of Sewage Treatment Plant: Municipal sewage treatment plant

Flow rate of sewage treatment 10,000 m3/d

plant effluent

Percentage removed from waste 87.5 %

Water

# 2.5 Contributing scenario controlling worker exposure for: PROC15

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product

Mixture/Article up to 100 % (unless stated differently).

Physical Form (at time of use): Low volatile liquid

Process Temperature: < 70 °C

Frequency and duration of use

Frequency of use: 8 hours/day

#### Other operational conditions affecting workers exposure

Outdoor / Indoor: Indoor with local exhaust ventilation (LEV)

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

Covers daily exposures up to 8 hours.

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

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.

# Additional good practice advice beyond the REACH Chemical Safety Assessment

Use suitable eye protection.

#### 3. Exposure estimation and reference to its source

#### **Environment**

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR*
ERC2	Qualitative assessment used to conclude safe use.		All compartments			< 1
ERC6a	EUSES		All compartments			< 1
ERC6a	EUSES		All compartments			< 1
ERC6a	EUSES	TEN	All compartments			< 1



#### **Workers**

Contributing	Exposure	Specific conditions	Compartment	Value	Level of	RCR*
Scenario	Assessment Method				Exposure	
PROC15	ECETOC TRA	long-term, inhalative, systemic				0.9
PROC15	ECETOC TRA	long-term, dermal, systemic				0.01
PROC15	ECETOC TRA	longterm, combined, systemic				0.91

<sup>\*</sup>Risk characterisation ratio

# 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

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