

## SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

### Novaphen SC 50+

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	28.06.2023	300000000784	Date of first issue: 28.06.2023

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

##### 1.1 Product identifier

Trade name : Novaphen SC 50+

Product code : 190458RWHW

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

Use of the Sub-  
stance/Mixture : The uses are specified in the attached document

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

Company : Rain Carbon Germany GmbH  
Kekuléstraße 30  
44579 Castrop-Rauxel  
  
www.raincarbon.com

Telephone : +4923057050

E-mail address of person  
responsible for the SDS : sds@raincarbon.com

##### 1.4 Emergency telephone number

Emergency Telephone Number INTERNATIONAL (24-hour):  
GBK GmbH, Ingelheim: +49 (0)61 32 / 84 463 (in national language)

DURING THE TRANSPORT ONLY:  
24-hour Emergency-Telephone-Number  
GBK/INFOTRAC ID: 94482  
(001) 352 323 3500 (International)  
1 800 535 5053 (USA and Canada domestic)

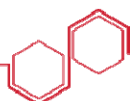
In other cases: contact the manufacturer / supplier

#### SECTION 2: Hazards identification

##### 2.1 Classification of the substance or mixture

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

Acute toxicity, Category 3 H301: Toxic if swallowed.



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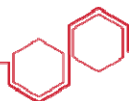
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Acute toxicity, Category 3	H311: Toxic in contact with skin.
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Germ cell mutagenicity, Category 2	H341: Suspected of causing genetic defects.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

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

Hazard pictograms	:	   
Signal word	:	Danger
Hazard statements	:	H301 + H311 Toxic if swallowed or in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  <b>Response:</b> P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. 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. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.



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P391 Collect spillage.

Hazardous components which must be listed on the label:

mix-cresol  
xylenol  
phenol

#### 2.3 Other hazards

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

## SECTION 3: Composition/information on ingredients

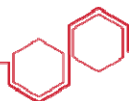
#### 3.2 Mixtures

Chemical nature : organic

: Complex mixture of UVCB (unknown or variable composition, complex reaction products or of biological materials) substances.

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
mix-cresol	1319-77-3 215-293-2 604-004-00-9 01-2119565142-45-0000	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1B; H314 Aquatic Chronic 3; H412	> 65
xylenol	1300-71-6 215-089-3 604-006-00-X 01-2120114882-59-0000	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 2; H411	< 25
phenol	108-95-2 203-632-7 604-001-00-2	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Muta. 2; H341	< 2



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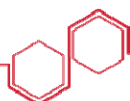
		STOT RE 2; H373 Aquatic Chronic 2; H411 <hr/> specific concentra- tion limit Skin Corr. 1B; H314 >= 3 % Skin Irrit. 2; H315 1 - < 3 % Eye Irrit. 2; H319 1 - < 3 %
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For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
 Consult a physician.  
 Show this safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
 Seek medical treatment.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
 Wash with polyethylene glycol and ethanol (2:1). Then wash thoroughly with water and soap.  
 If on clothes, remove clothes.  
  
 Seek medical treatment.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
 In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 Continue rinsing eyes during transport to hospital.  
 Remove contact lenses.  
 Protect unharmed eye.  
 Keep eye wide open while rinsing.  
 Seek medical treatment.



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If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.

Seek medical treatment.

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

Risks : Toxic if swallowed or in contact with skin.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
Suspected of causing genetic defects.  
Causes severe burns.

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

Treatment : Therapeutically measures: basic help, decontamination, symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Extinguishing powder or water jet. Fight larger fire with foam

Unsuitable extinguishing media : High volume water jet

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

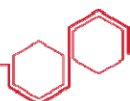
Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored sepa-



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rately in closed containments.  
Use a water spray to cool fully closed containers.

## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

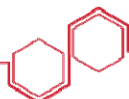
Technical measures : Install appropriate equipment and wear appropriate personal protective equipment (see "8. Exposure control/personal protection").

Advice on safe handling : Ensure adequate ventilation.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Take measures to prevent the build up of electrostatic charge.  
Keep PEG 300 / Ethanol or PEG 400 solution ready

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : General industrial hygiene practice.

When using do not eat or drink. When using do not smoke.



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Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : No smoking. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

#### 7.3 Specific end use(s)

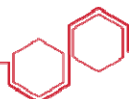
Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
mix-cresol	1319-77-3	TWA	5 ppm 22 mg/m <sup>3</sup>	91/322/EEC
Further information: Indicative				
phenol	108-95-2	TWA	2 ppm 7.8 mg/m <sup>3</sup>	GB EH40
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
		STEL	4 ppm 16 mg/m <sup>3</sup>	GB EH40
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
		TWA	2 ppm 8 mg/m <sup>3</sup>	2009/161/EU
Further information: Identifies the possibility of significant uptake through the skin, Indicative				
		STEL	4 ppm 16 mg/m <sup>3</sup>	2009/161/EU
Further information: Identifies the possibility of significant uptake through the skin, Indicative				



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

Substance name	End Use	Exposure routes	Potential health effects	Value
mix-cresol	Workers	Inhalation	Long-term local effects	0.9 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	3.5 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	152 mg/m <sup>3</sup>
phenol	Workers	Dermal	Long-term systemic effects	1.23 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	8 mg/m <sup>3</sup>

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

Substance name	Environmental Compartment	Value
mix-cresol	Fresh water	0.1 mg/l
	Intermittent use/release	0.044 mg/l
	Fresh water sediment	327.83 mg/l
	Marine water	3 µg/l
	Sewage treatment plant	1.14 mg/l
phenol	Fresh water	7.7 µg/l
	Marine water	0.77 µg/l
	Fresh water sediment	0.0915 mg/kg dry weight (d.w.)
	Marine sediment	0.00915 mg/kg dry weight (d.w.)
	Soil	0.136 mg/kg dry weight (d.w.)

## 8.2 Exposure controls

### Engineering measures

Exhaust ventilation equipped with filters.

### Personal protective equipment

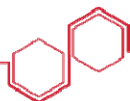
Eye protection : Safety glasses  
Equipment should conform to EN 166

Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

### Hand protection

Material : Nitrile rubber  
Break through time : 60 - 78 min  
Glove thickness : >= 0.425 mm





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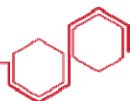
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Material	:	Fluorocarbon rubber (Viton) / butyl-rubber
Break through time	:	> 480 min
Glove thickness	:	>= 0.7 mm
Remarks	:	Protective gloves Equipment should conform to EN 374 The exact break through time can be obtained from the protective glove producer and this has to be observed. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection	:	Protective suit Protective work clothing (EN 340)  Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	:	In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air. Equipment should conform to EN 14387
Protective measures	:	Take off all contaminated clothing immediately. Recommended preventive skin protection Wash hands before breaks and at the end of workday.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	light yellow
Odour	:	phenol-like
pH	:	5 - 6 (20 °C) Concentration: 10 g/l
Melting point/range	:	< 0 °C
Initial boiling point and boiling range	:	190 - 205 °C Method: DIN 51761
Flash point	:	> 83 °C Method: EN ISO 2719



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Vapour pressure	:	0.05 - 0.3 hPa (20 °C)
Density	:	1.03 - 1.04 g/cm <sup>3</sup> (20 °C) Method: DIN 51757
Solubility(ies)	:	
Water solubility	:	insoluble
Auto-ignition temperature	:	> 450 °C Method: DIN 51794
Decomposition temperature	:	Not applicable
Explosive properties	:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

#### 9.2 Other information

Self-ignition	:	Product is not self-igniting
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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	Vapours may form explosive mixture with air.
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#### 10.4 Conditions to avoid

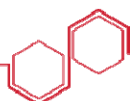
Conditions to avoid	:	Heat, flames and sparks.
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#### 10.5 Incompatible materials

Materials to avoid	:	Oxidizing agents Strong acids and strong bases
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#### 10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).



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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Toxic if swallowed or in contact with skin.

#### Product:

Acute oral toxicity	:	Acute toxicity estimate: 100 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: 300.73 mg/kg Method: Calculation method

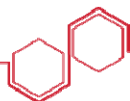
#### Components:

##### **mix-cresol:**

Acute oral toxicity	:	LD50 (Rat, male): 121 mg/kg bw Assessment: The component/mixture is toxic after single ingestion.
Acute inhalation toxicity	:	LC0 (Rat): 0.71 mg/l Exposure time: 1 h Test atmosphere: gas
Acute dermal toxicity	:	LD50 (Rabbit): ca. 301 mg/kg

##### **xyleneol:**

Acute oral toxicity	:	LD50 (Rat): 980.62 mg/kg Method: OECD Test Guideline 425 Assessment: The component/mixture is toxic after single ingestion.
Acute inhalation toxicity	:	(Rat): > 0.07 mg/l Exposure time: 168 h
Acute dermal toxicity	:	Assessment: The component/mixture is toxic after single contact with skin.



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#### phenol:

Acute oral toxicity : LD50 (Rat): 340  
Method: OECD Test Guideline 401

LDLo (Humans): 140

Acute inhalation toxicity : LCLo (Rat): 0.9 mg/l  
Exposure time: 8 h

Acute dermal toxicity : LD50 (Rat): 660 mg/kg bw  
Method: OECD Test Guideline 402

#### Skin corrosion/irritation

Causes severe burns.

#### Product:

Remarks : Extremely corrosive and destructive to tissue.

#### Components:

##### mix-cresol:

Species : Rabbit  
Assessment : Corrosive

##### xlenol:

Result : Corrosive after 3 minutes to 1 hour of exposure

##### phenol:

Result : Causes burns.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Product:

Remarks : May cause irreversible eye damage.

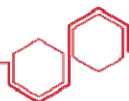
#### Components:

##### mix-cresol:

Result : No eye irritation

##### xlenol:

Result : No eye irritation



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#### Respiratory or skin sensitisation

##### Skin sensitisation

May cause an allergic skin reaction.

##### Respiratory sensitisation

Not classified based on available information.

##### Product:

Remarks : Causes sensitisation.

##### Components:

##### xyleneol:

Result : May cause sensitisation by skin contact.

##### phenol:

Result : Not a skin sensitizer.

#### Germ cell mutagenicity

Suspected of causing genetic defects.

##### Components:

##### phenol:

Genotoxicity in vitro : Result: positive

Germ cell mutagenicity- Assessment : Positive result(s) from in vivo somatic cell mutagenicity tests supported by positive results from in vitro mutagenicity assays or chemical structure activity relationship to known germ cell mutagens

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

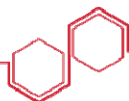
Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.



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#### Repeated dose toxicity

##### Components:

##### **mix-cresol:**

Species	: Rat
NOAEL	: 50 mg/kg bw/day
Application Route	: Oral

##### **xyleneol:**

Species	: Rat
NOAEL	: 100 mg/kg bw/day
Application Route	: Oral
Method	: OECD Test Guideline 422

Species	: Rat
LOAEL	: 0.01 mg/l
Application Route	: Inhalation

#### Aspiration toxicity

Not classified based on available information.

#### Further information

##### Product:

Remarks : No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

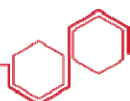
### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

##### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of



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0.1% or higher.

#### 12.6 Other adverse effects

**Product:**

Endocrine disrupting potential : 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.  
None of the ingredients is (are) identified as endocrine disruptor.

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life.  
Harmful to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : Remove according to local authority recommendations, e.g. convey to a licensed incinerator.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

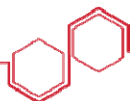
## SECTION 14: Transport information

#### 14.1 UN number

ADR : UN 2022  
RID : UN 2022  
IMDG : UN 2022  
IATA : UN 2022

#### 14.2 UN proper shipping name

ADR : CRESYLIC ACID  
RID : CRESYLIC ACID  
IMDG : CRESYLIC ACID



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(xylenol)

**IATA** : Cresylic acid

#### 14.3 Transport hazard class(es)

**ADR** : 6.1

**RID** : 6.1

**IMDG** : 6.1

**IATA** : 6.1

#### 14.4 Packing group

##### ADR

Packing group : II  
 Classification Code : TC1  
 Hazard Identification Number : 68  
 Labels : 6.1 (8)  
 Tunnel restriction code : (D/E)  
 Remarks : Symbol (fish and tree), ADR/RID Excepted quantities (EQ) : E4, ADR/RID Limited quantities (LQ) : 100 ml, Transport category: 2  
 WGK 3: Extremely hazardous to water acc. to WHG Germany

##### RID

Packing group : II  
 Classification Code : TC1  
 Hazard Identification Number : 68  
 Labels : 6.1 (8)  
 Remarks : Symbol (fish and tree), ADR/RID Excepted quantities (EQ) : E4, ADR/RID Limited quantities (LQ) : 100 ml, Transport category: 2  
 WGK 3: Extremely hazardous to water acc. to WHG Germany

##### IMDG

Packing group : II  
 Labels : 6.1 (8)  
 EmS Code : F-A, S-B

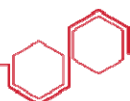
##### IATA (Cargo)

Packing instruction (cargo aircraft) : 660  
 Packing instruction (LQ) : Y640  
 Packing group : II  
 Labels : Toxic, Corrosive

##### IATA (Passenger)

Packing instruction (passenger aircraft) : 653





## SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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Packing instruction (LQ)	:	Y640
Packing group	:	II
Labels	:	Toxic, Corrosive

#### 14.5 Environmental hazards

##### ADR

Environmentally hazardous : yes

##### RID

Environmentally hazardous : yes

##### IMDG

Marine pollutant : yes

##### IATA (Passenger)

Environmentally hazardous : yes

##### IATA (Cargo)

Environmentally hazardous : yes

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

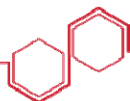
Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable



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GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation : Not applicable

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

E2 ENVIRONMENTAL HAZARDS  
H2 ACUTE TOXIC

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 100 %

#### The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory  
TSCA : All substances listed as active on the TSCA inventory  
AIIC : On the inventory, or in compliance with the inventory  
DSL : All components of this product are on the Canadian DSL  
  
ENCS : On the inventory, or in compliance with the inventory  
ISHL : On the inventory, or in compliance with the inventory  
KECI : On the inventory, or in compliance with the inventory  
IECSC : On the inventory, or in compliance with the inventory  
TECI : On the inventory, or in compliance with the inventory

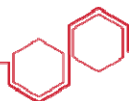
#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

#### Full text of H-Statements

H301 : Toxic if swallowed.  
H311 : Toxic in contact with skin.  
H314 : Causes severe skin burns and eye damage.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H331 : Toxic if inhaled.



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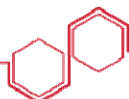
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H341	:	Suspected of causing genetic defects.
H373	:	May cause damage to organs through prolonged or repeated exposure.
H411	:	Toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Muta.	:	Germ cell mutagenicity
Skin Corr.	:	Skin corrosion
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
2009/161/EU	:	Europe. COMMISSION DIRECTIVE 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
91/322/EEC	:	Europe. Commission Directive 91/322/EEC on establishing indicative limit values
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
2009/161/EU / TWA	:	Limit Value - eight hours
2009/161/EU / STEL	:	Short term exposure limit
91/322/EEC / TWA	:	Limit Value - eight hours
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

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; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office



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of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

Other information : none

Sources of key data used to compile the Safety Data Sheet : Information taken from reference works and the literature. Information derived from practical experience. Hazardous Substances Information System (GESTIS) - <https://www.dguv.de/ifa/gestis/index.jsp> CEFIC-ERI-Card (<http://www.ericards.net>)

#### Classification of the mixture:

Acute Tox. 3	H301
Acute Tox. 3	H311
Skin Corr. 1B	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Muta. 2	H341
Aquatic Chronic 2	H411

#### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

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

GB / EN