

# SAFETY DATA SHEET

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

**schülke** 

**dialox™**      **No Change Service!**

Version  
07.00

Revision Date:  
26.07.2021

Date of last issue: 23.06.2020  
Date of first issue: 30.05.2007

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

### 1.1 Product identifier

Trade name : dialox™

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

Use of the Sub-  
stance/Mixture : Disinfectant for medical device

Recommended restrictions  
on use : Restricted to professional users.

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

Producer : Bioxal  
Route des Varennes  
  
71103 Chalon-sur-Saône Cedex  
France  
Telephone: + 33 (0) 3 85 92 30 00  
Telefax: + 33 (0) 3 85 92 30 12

Supplier : Schülke & Mayr UK Ltd.  
Cygnet House  
1, Jenkin Road, Meadowhall  
  
Sheffield S9 1AT  
United Kingdom  
Telephone: +44 114 254 35 00  
Telefax: +44 114 254 35 01  
mail.uk@schulke.com

E-mail address of person  
responsible for the  
SDS/Contact person : Application Department  
+49 (0)40/ 521 00 666  
AD@schuelke.com  
(Schülke & Mayr UK Ltd.: +44-1142543500)

### 1.4 Emergency telephone number

Emergency telephone num-  
ber : UK Poisons Emergency number: 0870 600 6266  
Carechem 24 International: +44 1235 239670

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## 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)**

Corrosive to metals, Category 1      H290: May be corrosive to metals.

Skin corrosion, Sub-category 1C      H314: Causes severe skin burns and eye damage.

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Serious eye damage, Category 1

H318: Causes serious eye damage.

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

: H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**  
P260 Do not breathe vapours, aerosols.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314 Get medical advice/ attention if you feel unwell.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

hydrogen peroxide  
acetic acid

## 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.

No hazards to be specially mentioned.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

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Chemical nature                               :   Solution of the following substances

## Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
hydrogen peroxide	7722-84-1 231-765-0 008-003-00-9 01-2119485845-22-XXXX	Ox. Liq. 1; H271 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 3; H412	>= 5 - < 10
Substances with a workplace exposure limit :			
acetic acid	64-19-7 200-580-7 607-002-00-6 01-2119475328-30-XXXX	Flam. Liq. 3; H226 Skin Corr. 1A; H314 Eye Dam. 1; H318	>= 1 - < 10

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice                               :   Take off all contaminated clothing immediately.
- If inhaled                                       :   Move the victim to fresh air and keep him calm.  
If symptoms persist, call a physician.
- In case of skin contact                     :   Wash off immediately with plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact                      :   Rinse immediately with plenty of water, also under the eyelids,  
for at least 15 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed                                  :   Do NOT induce vomiting.  
Call a physician immediately.  
Rinse mouth with water.  
Give small amounts of water to drink.

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

- Symptoms                                      :   Treat symptomatically.

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Risks : Causes serious eye damage.  
Causes severe burns.

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

Treatment : For specialist advice physicians should contact the Poisons  
Information Service.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Dry powder  
Foam  
Water spray jet

Unsuitable extinguishing  
media : Carbon dioxide (CO<sub>2</sub>)  
Do NOT use water jet.

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

Specific hazards during fire-  
fighting : No information available.

Hazardous combustion prod-  
ucts : No hazardous combustion products are known

### 5.3 Advice for firefighters

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

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## SECTION 6: Accidental release measures

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

Personal precautions : Handle in accordance with good industrial hygiene and safety  
practice.  
Ensure adequate ventilation.  
Avoid contact with skin and eyes.  
Do not breathe vapour.

### 6.2 Environmental precautions

Environmental precautions : Avoid subsoil penetration.  
Do not flush into surface water or sanitary sewer system.

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

Methods for cleaning up : Soak up with inert absorbent material.  
Suitable material for picking up:  
Kieselguhr  
Universal binder  
Unsuitable material for picking up:  
Absorbent material, organic

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Sawdust  
Keep in suitable, closed containers for disposal.  
Clean contaminated surface thoroughly.  
Flush with water.

## 6.4 Reference to other sections

see Section 8 + 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.  
Handle and open container with care.  
Never return unused material to storage receptacle.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : When using do not eat or drink.

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

- Requirements for storage areas and containers : Keep only in the original container. Suitable container and packaging materials for safe storage Plastic container of HDPE Polyethylene glass Unsuitable materials for containers Metals
- Further information on storage conditions : Keep away from heat. Keep away from direct sunlight. Store in cool place. Do not keep the container sealed. Keep in a dry place. Recommended storage temperature: 5 - 30°C
- Advice on common storage : Do not store together with metals.  
Do not store together with alkalis.  
Do not store together with reducing agents.  
Do not store together with combustible substances.

### 7.3 Specific end use(s)

- Specific use(s) : none

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
hydrogen peroxide	7722-84-1	TWA	1 ppm 1.4 mg/m <sup>3</sup>	GB EH40
		STEL	2 ppm 2.8 mg/m <sup>3</sup>	GB EH40
		PEL	1.25 mg/m <sup>3</sup>	Biocide dos-

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		STEL	1.25 mg/m <sup>3</sup>	sier Biocide dossier
acetic acid	64-19-7	STEL	20 ppm 50 mg/m <sup>3</sup>	GB EH40
		TWA	10 ppm 25 mg/m <sup>3</sup>	GB EH40
		TWA	10 ppm 25 mg/m <sup>3</sup>	2017/164/EU
Further information: Indicative				
		STEL	20 ppm 50 mg/m <sup>3</sup>	2017/164/EU
Further information: Indicative				

## Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
hydrogen peroxide	Workers	Inhalation	Acute local effects	3 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	1.4 mg/m <sup>3</sup>
acetic acid	Workers	Inhalation	Acute local effects	25 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	25 mg/m <sup>3</sup>

## Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
hydrogen peroxide	Fresh water	0.0126 mg/l
	Marine water	0.0126 mg/l
	Intermittent use/release	0.0138 mg/l
	Effects on waste water treatment plants	4.66 mg/l
	Fresh water sediment	0.047 mg/kg
	Marine sediment	0.047 mg/kg
acetic acid	Soil	0.0023 mg/kg
	Fresh water	3.058 mg/l
	Marine water	0.306 mg/l
	Fresh water sediment	11.36 mg/kg
	Marine sediment	1.136 mg/kg
	Intermittent use/release	30.58 mg/l
	Soil	0.478 mg/kg
	Effects on waste water treatment plants	85 mg/l

## 8.2 Exposure controls

### Personal protective equipment

- Eye protection : Safety glasses with side-shields conforming to EN166
- Hand protection  
Directive : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
- Remarks : Prolonged contact: Nitrile rubber gloves e.g. Camatril (>120 Min., layer thickness: 0.40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0.70 mm) made by KCL

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- or gloves from other manufacturers offering the same protection. Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear as appropriate:  
Chemical resistant apron  
Boots  
Neoprene
- Respiratory protection : If the occupational exposure limits cannot be met, in exceptional cases suitable respiratory equipment should be worn only for a short period of time.  
Combination filter:  
A2B2E2K2 Hg NO P3 P D/ CO 20 P3 R D
- Protective measures : Do not breathe vapour.  
Avoid contact with skin and eyes.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : colourless
- Odour : vinegar-like
- Odour Threshold : not determined
- pH : 1.4 (20 °C)  
Concentration: 100 %
- Melting point/freezing point : ca. -15 °C
- Decomposition temperature : No data available
- Boiling point/boiling range : ca. 98 °C
- Flash point : Not applicable
- Evaporation rate : No data available
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available
- Vapour pressure : No data available

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Relative vapour density	:	No data available
Density	:	1.03 g/cm <sup>3</sup> (20 °C)
Solubility(ies)		
Water solubility	:	completely soluble (20 °C)
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	not determined
Viscosity		
Viscosity, dynamic	:	not determined
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

## 9.2 Other information

Flammability (liquids)	:	Does not sustain combustion.
Metal corrosion rate	:	> 6.25 mm/a Corrosive to metals Aluminium and Mild steel

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	To avoid thermal decomposition, do not overheat. Keep away from combustible material.
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### 10.4 Conditions to avoid

Conditions to avoid	:	Extremes of temperature and direct sunlight.
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### 10.5 Incompatible materials

Materials to avoid	:	Reducing agents Acid chlorides Aldehydes Metals Strong acids and strong bases
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### 10.6 Hazardous decomposition products

Oxygen



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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

- Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method
- Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

##### Components:

##### **hydrogen peroxide:**

- Acute oral toxicity : LD50 (Rat): 801 - 872 mg/kg  
Remarks: Harmful if swallowed.
- Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.  
Remarks: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, Annex VI, Table 3.1
- Acute dermal toxicity : LD50 (Rat): 6,500 mg/kg

##### **acetic acid:**

- Acute oral toxicity : LD50 (Rat): 3,310 mg/kg
- Acute inhalation toxicity : LC50 (Rat): > 39.8 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

#### Skin corrosion/irritation

##### Product:

- Assessment : Causes severe skin burns and eye damage.  
Method : In Vitro Membrane Barrier Test Method for Skin Corrosion - CORROSITEX
- Result : Corrosive after 1 to 4 hours of exposure  
Remarks : The toxicological data has been taken from products of similar composition.

##### Components:

##### **hydrogen peroxide:**

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Species : Rabbit  
Result : Corrosive after 3 minutes or less of exposure

## acetic acid:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive after 3 minutes or less of exposure

## Serious eye damage/eye irritation

### Product:

Assessment : Causes severe skin burns and eye damage.  
Method : In Vitro Membrane Barrier Test Method for Skin Corrosion -  
CORROSITEX  
Remarks : The toxicological data has been taken from products of similar  
composition.

### Components:

#### hydrogen peroxide:

Species : Rabbit  
Result : Irreversible effects on the eye

#### acetic acid:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irreversible effects on the eye

## Respiratory or skin sensitisation

### Components:

#### hydrogen peroxide:

Species : Guinea pig  
Result : Did not cause sensitisation on laboratory animals.

#### acetic acid:

Result : No data available

## Germ cell mutagenicity

### Components:

#### hydrogen peroxide:

Genotoxicity in vitro : Test Type: Ames test  
Result: negative  
Genotoxicity in vivo : Test Type: in vivo assay  
Result: Non mutagenic

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## **acetic acid:**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

## **Carcinogenicity**

### **Components:**

#### **hydrogen peroxide:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

#### **acetic acid:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

## **Reproductive toxicity**

### **Components:**

#### **hydrogen peroxide:**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

#### **acetic acid:**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

## **STOT - single exposure**

### **Components:**

#### **hydrogen peroxide:**

Target Organs : Respiratory Tract  
Assessment : May cause respiratory irritation.

#### **acetic acid:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

## **STOT - repeated exposure**

### **Components:**

#### **hydrogen peroxide:**

Assessment : No data available

#### **acetic acid:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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## Repeated dose toxicity

### Components:

#### hydrogen peroxide:

Species : Rat  
NOAEL : 26 mg/kg  
Application Route : Oral  
Exposure time : 3 months  
Remarks : No adverse effect has been observed in chronic toxicity tests.

Species : Rat  
NOAEL : 0.0029 mg/l  
Application Route : inhalation (vapour)  
Method : OECD Test Guideline 407

#### acetic acid:

Species : Rat  
NOAEL : 1,800 mg/kg  
Application Route : Oral  
Exposure time : 14-days

### Further information

#### Product:

Remarks : No human information is available.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : LC50 (Brachidanio rerio): 10 - 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 10 - 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 10 - 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

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## Components:

### hydrogen peroxide:

Toxicity to fish	:	LC50 (Fish): 16.4 - 37.4 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia pulex (Water flea)): 2.4 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Skeletonema costatum (marine diatom)): 1.38 mg/l Exposure time: 72 h  NOEC (Skeletonema costatum (marine diatom)): 0.63 mg/l Exposure time: 72 h

### acetic acid:

Toxicity to fish	:	LC50 (Gambusia affinis (Mosquito fish)): 251 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna): 95 mg/l Exposure time: 24 h
Toxicity to algae/aquatic plants	:	EC100 (Euglena gracilis): 720 mg/l Exposure time: 0.25 h

## 12.2 Persistence and degradability

### Components:

#### hydrogen peroxide:

Biodegradability	:	Result: Totally biodegradable Method: OECD Test Guideline 301
------------------	---	--

#### acetic acid:

Biodegradability	:	Result: Totally biodegradable Method: OECD 301D / EEC 84/449 C6
------------------	---	--

## 12.3 Bioaccumulative potential

### Components:

#### hydrogen peroxide:

Bioaccumulation	:	Remarks: Does not bioaccumulate.
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#### acetic acid:

Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.
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## 12.4 Mobility in soil

### Components:

#### hydrogen peroxide:

|| Mobility : Medium: Water  
Remarks: Hydrolyses readily.

#### acetic acid:

|| Mobility : Remarks: No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

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

## 12.6 Other adverse effects

### Product:

Additional ecological information : No data is available on the product itself.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## SECTION 14: Transport information

### 14.1 UN number

ADR : UN 3265  
IMDG : UN 3265  
IATA : UN 3265

### 14.2 UN proper shipping name

ADR : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(acetic acid, peracetic acid)

IMDG : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(acetic acid, peracetic acid)

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**IATA** : Corrosive liquid, acidic, organic, n.o.s.  
(acetic acid, peracetic acid)

## 14.3 Transport hazard class(es)

**ADR** : 8  
**IMDG** : 8  
**IATA** : 8

## 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : C3  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : (E)

**IMDG**  
Packing group : III  
Labels : 8  
EmS Code : F-A, S-B

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 856  
Packing instruction (LQ) : Y841  
Packing group : III  
Labels : Corrosive

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 852  
Packing instruction (LQ) : Y841  
Packing group : III  
Labels : Corrosive

## 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : yes

**IMDG**  
Marine pollutant : yes

## 14.6 Special precautions for user

Remarks : Not classified as supporting combustion according to the transport regulations.

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.

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## 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, preparations 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   |
| Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals                 | : | Not applicable   |
| UK REACH List of substances subject to authorisation (Annex XIV)   | : | 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**

- |                            |   |   |
|----------------------------|---|---|
| Volatile organic compounds | : | Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0.75 % |
|----------------------------|---|---|

#### 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  | : | Not 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  |
| PICCS | : | On the inventory, or in compliance with the inventory  |



# SAFETY DATA SHEET

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

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Version  
07.00

Revision Date:  
26.07.2021

Date of last issue: 23.06.2020  
Date of first issue: 30.05.2007

IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

## 15.2 Chemical safety assessment

Exempt

## SECTION 16: Other information

### Full text of H-Statements

H226	:	Flammable liquid and vapour.
H271	:	May cause fire or explosion; strong oxidizer.
H302	:	Harmful if swallowed.
H314	:	Causes severe skin burns and eye damage.
H318	:	Causes serious eye damage.
H332	:	Harmful if inhaled.
H335	:	May cause respiratory irritation.
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
Flam. Liq.	:	Flammable liquids
Ox. Liq.	:	Oxidizing liquids
Skin Corr.	:	Skin corrosion
STOT SE	:	Specific target organ toxicity - single exposure
2017/164/EU	:	Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
2017/164/EU / STEL	:	Short term exposure limit
2017/164/EU / 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 - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - 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

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test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; 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

#### Classification of the mixture:

Met. Corr. 1	H290
Skin Corr. 1C	H314
Eye Dam. 1	H318
Aquatic Chronic 2	H411

#### Classification procedure:

Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Calculation method

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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.