

perform® select soproper**No Change Service!**Version
04.01Revision Date:
15.06.2019Date of last issue: 05.11.2018
Date of first issue: 23.09.2009**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : perform® select soproper

1.2 Relevant identified uses of the substance or mixture and uses advised againstUse of the Sub-
stance/Mixture : Disinfectants and general biocidal productsRecommended restrictions
on use : Restricted to professional users.**1.3 Details of the supplier of the safety data sheet**Producer : BIOXAL SA - AIR LIQUIDE Group
Route des Varennes71103 Chalon-sur-Saône Cedex
France
Telephone: + 33 (0) 3 85 92 30 00
Telefax: + 33 (0) 3 85 92 30 12Supplier : Schülke & Mayr GmbH
Robert-Koch-Str. 222851 Norderstedt
Germany
Telephone: +49 (0)40/ 52100-0
Telefax: +49 (0)40/ 52100-318
mail@schuelke.com
www.schuelke.comE-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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Oxidizing liquids, Category 2 H272: May intensify fire; oxidizer.

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

Acute toxicity, Category 4 H302: Harmful if swallowed.

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according to Regulation (EC) No. 1907/2006

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Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin corrosion, Category 1	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, Category 3	H335: May cause respiratory irritation.
	EUH071: Corrosive to the respiratory tract.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H272 May intensify fire; oxidizer. H290 May be corrosive to metals. H302 + H332 Harmful if swallowed or if inhaled. H314 Causes severe skin burns and eye damage.
Supplemental Hazard Statements	:	EUH071 Corrosive to the respiratory tract.
Precautionary statements	:	P220 Keep away from clothing and other combustible materials. P280 Wear protective gloves (e.g. butyl rubber) /protective clothing/eye protection/face protection. 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 or shower. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. P403 + P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

79-21-0	Peracetic acid
7722-84-1	Hydrogen peroxide
64-19-7	Acetic acid

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Additional Labelling

Use biocides safely. Always read the label and product information before use.
Further information : Use biocides safely. Always read the label and product information before use.

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.

Oxidizer. Contact with other material may cause fire.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Solution of the following substances

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Peracetic acid	79-21-0 201-186-8 607-094-00-8 01-2119531330-56-0006	Flam. Liq. 3; H226 Org. Perox. D; H242 Acute Tox. 3; H301 Acute Tox. 4; H312 Acute Tox. 2; H330 Skin Corr. 1A; H314 STOT SE 3; H335 Aquatic Acute 1; H400; M = 1	1 - 5
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 STOT SE 3; H335 Aquatic Chronic 3; H412	8 - 35
Acetic acid	64-19-7 200-580-7 607-002-00-6 01-2119475328-30-XXXX	Flam. Liq. 3; H226 Skin Corr. 1A; H314	10 - 25

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.

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In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

- If inhaled : Move the victim to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with plenty of water.
Call a physician immediately.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,
for at least 15 minutes.
Call a physician immediately.
- If swallowed : Do NOT induce vomiting.
Rinse mouth with water.
Give small amounts of water to drink.
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing media : Water spray jet
Foam
Dry powder
- Unsuitable extinguishing media : Carbon dioxide (CO₂)
Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Cool closed containers exposed to fire with water spray.
- Hazardous combustion products : Oxygen

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

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.
Unsuitable material for picking up:
Absorbent material, organic
Kieselguhr
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 : Keep away from sources of ignition - No smoking. Keep away from combustible material. May cause or intensify fire; oxidizer.

Hygiene measures : When using do not eat or drink. Take off all contaminated clothing immediately.

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 Store in a receptacle equipped with a vent. Keep in a banded area.

Further information on storage conditions : Keep away from heat. Keep away from direct sunlight. Store in cool place. Do not keep the container sealed. Store in up-

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right position only. 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****Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
Hydrogen peroxide	Workers	Inhalation	Local effects, Short-term exposure	3 mg/m ³
	Workers	Inhalation	Local effects, Long-term exposure	1,4 mg/m ³
Acetic acid	Workers	Inhalation	Acute local effects, Short-term exposure	25 mg/m ³
	Workers	Inhalation	Chronic effects, Long-term exposure	25 mg/m ³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

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
	Soil	0,0023 mg/kg
Acetic acid	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**Engineering measures**

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166
Face-shield

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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 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	:	pungent
Odour Threshold	:	not determined
pH	:	< 1 (20 °C)
Melting point/freezing point	:	< -15 °C
Decomposition temperature	:	No data available
Boiling point/boiling range	:	ca. 99 °C
Flash point	:	> 100 °C
Evaporation rate	:	No data available

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Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	32 hPa (ca. 20 °C)
Vapour density	:	No data available
Relative density	:	1,075 g/cm ³ (20 °C)
Solubility(ies) Water solubility	:	completely soluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	> 435 °C
Viscosity Viscosity, dynamic	:	1,54 mPa*s (20 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	oxidizing

9.2 Other information

Metal corrosion rate : Corrosive to metals Aluminium and Mild steel

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : To avoid thermal decomposition, do not overheat.

10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases
Reducing agents
Acid chlorides
Aldehydes
Metals

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Oxygen

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Product:**

- Acute oral toxicity : Acute toxicity estimate: 1.641 mg/kg
Assessment: Harmful if swallowed.
- Acute inhalation toxicity : Acute toxicity estimate: 4,2 mg/l
Remarks: Harmful if inhaled.
- Acute dermal toxicity : Acute toxicity estimate: > 15.000 mg/kg

Components:**Peracetic acid:**

- Acute oral toxicity : LD50 (Rat): 85 - 153 mg/kg
Assessment: Toxic if swallowed.
- Acute inhalation toxicity : 0,204 mg/l
Test atmosphere: dust/mist
Assessment: Fatal if inhaled.
- Acute dermal toxicity : 1.100 mg/kg
Assessment: Harmful in contact with skin.

Hydrogen peroxide:

- Acute oral toxicity : LD50 (Rat): 801 - 872 mg/kg
Remarks: Harmful if swallowed.
- Acute inhalation toxicity : Assessment: Harmful if inhaled.
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
- Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

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Method : Calculation method**Components:****Peracetic acid:**Species : Rabbit
Method : OECD Test Guideline 404
Result : Causes severe burns.**Hydrogen peroxide:**Species : Rabbit
Result : Corrosive**Acetic acid:**Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive**Serious eye damage/eye irritation****Product:**Assessment : Causes serious eye damage.
Method : Calculation method**Components:****Peracetic acid:**Species : Rabbit
Result : Corrosive**Hydrogen peroxide:**Species : Rabbit
Result : Risk of serious damage to eyes.**Acetic acid:**Species : Rabbit
Method : OECD Test Guideline 405
Result : Risk of serious damage to eyes.**Respiratory or skin sensitisation****Components:****Peracetic acid:**

Species : Mouse

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Result : Did not cause sensitisation on laboratory animals.
Remarks : Substance is not considered to be potential skin sensitiser.

Hydrogen peroxide:

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

Acetic acid:

Result : No data available

Germ cell mutagenicity**Components:****Peracetic acid:**

Germ cell mutagenicity- Assessment : Germ cell effects are not relevant., The substance has been tested for mutagenicity and other types of genotoxic effects in in vitro and in vivo experiments and is evaluated as being non-mutagenic.

Hydrogen peroxide:

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

Genotoxicity in vivo : Test Type: in vivo assay
Remarks: Non mutagenic

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

Acetic acid:

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

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

Carcinogenicity**Components:****Peracetic acid:**

Carcinogenicity - Assessment : No structural alerts for carcinogenicity were found.

Hydrogen peroxide:

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

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Acetic acid:

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

Reproductive toxicity**Components:****Peracetic acid:**Effects on foetal development : Species: Rat
Application Route: Oral
General Toxicity Maternal: NOAEL: 100 mg/l
Teratogenicity: NOAEL F1: 100 mg/l

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

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**Product:**

Assessment : May cause respiratory irritation.

Components:**Peracetic acid:**

Assessment : May cause respiratory irritation.

Hydrogen peroxide:

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:****Peracetic acid:**

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

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Assessment : No data available

Acetic acid:

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

Repeated dose toxicity**Components:****Peracetic acid:**Species : Rat
NOAEL : 15 mg/kg
Exposure time : 90-day
Remarks : No adverse effect has been observed in sub chronic toxicity tests.**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
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**Aspiration toxicity**

No data available

Further information**Product:**Remarks : No data is available on the product itself.
Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.
If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

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SECTION 12: Ecological information**12.1 Toxicity****Components:****Peracetic acid:**

- Toxicity to fish : LC50 : 1,1 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 0,73 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae : Remarks: No data available
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0121 mg/l
Exposure time: 33 d
Species: Daphnia magna (Water flea)

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 magna): 2,4 mg/l
Exposure time: 48 h
- Toxicity to algae : 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 : EC100 (Euglena gracilis): 720 mg/l
Exposure time: 0,25 h

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12.2 Persistence and degradability**Components:****Peracetic acid:**Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301**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:****Peracetic acid:**

Bioaccumulation : Remarks: Does not bioaccumulate.

Hydrogen peroxide:

Bioaccumulation : Remarks: Does not bioaccumulate.

Acetic acid:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

12.4 Mobility in soil**Components:****Peracetic acid:**Mobility : Medium: Water
Remarks: Hydrolyses readily.**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

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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.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : Dispose of the product according to the defined EWC (European Waste Code) No.
Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging : Take empty packaging to the recycling plant.

Waste key for the unused product : EWC 160903*

Waste key for the unused product(Group) : peroxides, for example hydrogen peroxide

SECTION 14: Transport information**14.1 UN number**

IMDG : UN 3149

IATA (Cargo) : UN 3149

14.2 UN proper shipping name

IMDG : HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

IATA (Cargo) : HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

14.3 Transport hazard class(es)

IMDG : 5.1

IATA (Cargo) : 5.1

14.4 Packing group**IMDG**

Packing group : II
Labels : 5.1 (8)
EmS Code : F-H, S-Q

IATA (Cargo)

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Packing instruction (cargo aircraft) : 554
Packing group : II
Labels : Oxidizer, Corrosive

14.5 Environmental hazards

IMDG

Marine pollutant : no

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.

For personal protection see section 8.

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : 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.

P8 OXIDIZING LIQUIDS AND SOLIDS

Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

15.2 Chemical safety assessment

Exempt

SECTION 16: Other information

Full text of H-Statements

H226 : Flammable liquid and vapour.
H242 : Heating may cause a fire.
H271 : May cause fire or explosion; strong oxidizer.
H301 : Toxic if swallowed.

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H302	:	Harmful if swallowed.
H312	:	Harmful in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H330	:	Fatal if inhaled.
H332	:	Harmful if inhaled.
H335	:	May cause respiratory irritation.
H400	:	Very toxic to aquatic life.
H412	:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Flam. Liq.	:	Flammable liquids
Org. Perox.	:	Organic peroxides
Ox. Liq.	:	Oxidizing liquids
Skin Corr.	:	Skin corrosion
STOT SE	:	Specific target organ toxicity - single exposure

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; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008

Ox. Liq. 2, H272	: On basis of test data.
Met. Corr. 1, H290	: Expert judgement and weight of evidence determination.
Acute Tox. 4, H302	: Calculation method
Acute Tox. 4, H332	: Calculation method
Skin Corr. 1, H314	: Calculation method
Eye Dam. 1, H318	: Calculation method
STOT SE 3, H335	: Calculation method
, EUH071	: Calculation method

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

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