

# Safety data sheet

## according to EU Regulation 2020/878

Printing date 26.07.2021

Version number 5

Revision: 26.07.2021

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

- **1.1 Product identifier**
  - **Trade name:** SP 9152
  - **UFI:** Not determined
  - **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
  - **Product category**
    - PC8 Biocidal products
    - PC37 Water treatment chemicals
  - **Process category**
    - PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
    - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
    - PROC4 Chemical production where opportunity for exposure arises
  - **Environmental release category**
    - ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
  - **Application of the substance / the mixture** BIOCIDE
- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
    - ACQUAFLEX srl
    - Via Calvino 7
    - I-20017 Rho ( MI)
    - info@acquaflex.com
- **1.4 Emergency telephone number:** 24-7 International Emergency telephone number: +39 0687 501 979

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



skull and crossbones

Acute Tox. 3      H301 Toxic if swallowed.



corrosion

Skin Corr. 1B      H314 Causes severe skin burns and eye damage.

Eye Dam. 1      H318 Causes serious eye damage.



environment

Aquatic Acute 1      H400 Very toxic to aquatic life.

Aquatic Chronic 1      H410 Very toxic to aquatic life with long lasting effects.



Acute Tox. 4      H332 Harmful if inhaled.

Skin Sens. 1      H317 May cause an allergic skin reaction.

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#### · 2.2 Label elements

##### · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

##### · Hazard pictograms GHS05, GHS06, GHS09

##### · Signal word Danger

##### · Hazard-determining components of labelling:

2-bromo-2-nitropropane-1,3-diol

5-Chloro-2-methyl-3(2H)-isothiazolone mix. with 2-methyl-3(2H)-isothiazolone

##### · Hazard statements

H301 Toxic if swallowed.

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

##### · Precautionary statements

P260 Do not breathe dusts or mists.

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### · 2.3 Other hazards

##### · Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Determination of endocrine-disrupting properties Not applicable

### SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

· Description: Mixture of substances listed below with non hazardous additions.

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<b>· Dangerous components:</b>		
CAS: 52-51-7 EINECS: 200-143-0 Reg.nr.: 01-2119980938-15-XXXX	2-bromo-2-nitropropane-1,3-diol ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335	5.0-15.0%
CAS: 55965-84-9	5-Chloro-2-methyl-3(2H)-isothiazolone mix. with 2-methyl-3(2H)-isothiazolone ⚠ Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; ⚠ Skin Corr. 1C, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); ⚠ Skin Sens. 1A, H317 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %	2.5-10%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

#### SECTION 4: First aid measures

##### · 4.1 Description of first aid measures

##### · General information:

Immediately remove any clothing soiled by the product.  
rescuers must be well equipped

##### · After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

##### · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Take off immediately all contaminated clothing.

##### · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

##### · After swallowing:

Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

##### · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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

No further relevant information available.

#### SECTION 5: Firefighting measures

##### · 5.1 Extinguishing media

##### · Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

Use fire extinguishing methods suitable to surrounding conditions.

##### · For safety reasons unsuitable extinguishing agents: No one in particular

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

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide (CO)

CO<sub>2</sub>

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Nitrogen oxides (NO<sub>x</sub>)

· **5.3 Advice for firefighters**

· **Protective equipment:** Firefighters, and others exposed, wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** Open and handle receptacle with care.

· **Information about fire - and explosion protection:** No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

The product, if stored properly, is stable for 24 months

The temperature warehouse must be between 5 and 35 ° C

Keep container tightly sealed

· **Storage class:** 6.1D

· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**52-51-7 2-bromo-2-nitropropane-1,3-diol**

MAK (Germany) vgl.Abschn.IIb

**55965-84-9 5-Chloro-2-methyl-3(2H)-isothiazolone mix. with 2-methyl-3(2H)-isothiazolone**

MAK (Germany) Long-term value: 0.2E mg/m<sup>3</sup>  
vgl.Abschn.Xc

· **DNELs**

**52-51-7 2-bromo-2-nitropropane-1,3-diol**

Oral DNEL (systemic) 6.5 mg/kg (CONSUMER) (ECHA website)

Dermal DNEL (systemic) 2.8 mg/kg (WORKERS) (ECHA website)

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Inhalative	DNEL (systemic)	4.1 mg/m <sup>3</sup> (WORKERS) (ECHA website) 1.2 mg/m <sup>3</sup> (CONSUMER) (ECHA website)
· <b>PNECs</b>		
<b>52-51-7 2-bromo-2-nitropropane-1,3-diol</b>		
PNEC aquatic	0.01 mg/l (WATER FRESH) (ECHA website)	
PNEC sediment	0.00325 mg/kg (water marine) (ECHA website) 0.041 mg/kg (WATER FRESH) (ECHA website)	

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· **Hand protection** Protective gloves

· **Material of gloves** Nitrile rubber, NBR

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection** Tightly sealed goggles

· **Body protection:** Use protective suit

· **Environmental exposure controls** Do not allow product to reach surface or ground water.

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Fluid

· **Colour:**

colourless-pale yellow

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Not determined

· **Boiling point or initial boiling point and boiling range**

100 °C

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

> 100 °C

Not applicable.

· **Auto-ignition temperature:**

Product is not selfigniting.

· **Decomposition temperature:**

Not determined.

· **pH at 20 °C**

3.0

· **Viscosity:**

· **Kinematic viscosity**

Not determined.

· **Dynamic:**

Not determined.

· **Solubility**

· **water:**

Fully miscible

· **Partition coefficient n-octanol/water (log value)**

Not determined.

· **Vapour pressure at 20 °C:**

23 hPa

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· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	1.10 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Not determined
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

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### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Information on the shelf life** If stored correctly the product is stable for 24 months
- **Instructions on how to verify desensitisation** Not determined.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)

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### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**  
Toxic if swallowed.  
Harmful if inhaled.

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**· LD/LC50 values relevant for classification:**

Oral	LD50	200-2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

**52-51-7 2-bromo-2-nitropropane-1,3-diol**

Oral	LD50	255-354 mg/kg (rat) (ECHA website)
Dermal	LD50	2,000 mg/kg (rat) (ECHA website)
Inhalative	LC50/4 h	588 mg/l (rat) (ECHA website)

**55965-84-9 5-Chloro-2-methyl-3(2H)-isothiazolone mix. with 2-methyl-3(2H)-isothiazolone**

Oral	LD50	67 mg/kg (rat)
Dermal	LD50	>140 mg/kg (rat)
Inhalative	LC50/4 h	0.33 mg/l (rat)

**· Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**· Serious eye damage/irritation**

Causes serious eye damage.

**· Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**· Germ cell mutagenicity** Based on available data, the classification criteria are not met.**· Carcinogenicity** Based on available data, the classification criteria are not met.**· Reproductive toxicity** Based on available data, the classification criteria are not met.**· STOT-single exposure** Based on available data, the classification criteria are not met.**· STOT-repeated exposure** Based on available data, the classification criteria are not met.**· Aspiration hazard** Based on available data, the classification criteria are not met.**· Additional toxicological information:****· Repeated dose toxicity****52-51-7 2-bromo-2-nitropropane-1,3-diol**

Oral	NOAEL	7-20 mg/kg (rat) (ECHA website)
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**· 11.2 Information on other hazards****· Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information****· 12.1 Toxicity****· Aquatic toxicity:****55965-84-9 5-Chloro-2-methyl-3(2H)-isothiazolone mix. with 2-methyl-3(2H)-isothiazolone**

EC50	0.12 mg/l (daphnia)
EC50/96h	0.22 mg/l (Oncorhynchus mykiss)
	0.025 mg/l (Selenastrum capricornutum)

**52-51-7 2-bromo-2-nitropropane-1,3-diol**

EC 50/48h	1.4 mg/l (daphnia) (ECHA website)
EC50/72h	0.25-0.37 mg/l (algae) (ECHA website)
NOEC/96h	35.7 mg/l (fish) (ECHA website)

**· 12.2 Persistence and degradability** No further relevant information available.**· Other information:****· Log KoW :**

55965-84-9	5-Chloro-2-methyl-3(2H)-isothiazolone mix. with 2-methyl-3(2H)-isothiazolone	0,75
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- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Toxic for fish

· <b>Behaviour in sewage processing plants:</b>
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55965-84-9 5-Chloro-2-methyl-3(2H)-isothiazolone mix. with 2-methyl-3(2H)-isothiazolone
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EC 50/16 h 0.79 mg/l (Pseudomonas putida)
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- **Additional ecological information:**

- **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
 Must not reach sewage water or drainage ditch undiluted or unneutralised.  
 Danger to drinking water if even extremely small quantities leak into the ground.  
 Also poisonous for fish and plankton in water bodies.  
 Toxic for aquatic organisms

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· <b>European waste catalogue</b>
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16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 03 00	off-specification batches and unused products
16 03 05	organic wastes containing dangerous substances

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

· <b>14.1 UN number or ID number</b>
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· <b>ADR, IMDG, IATA</b>	3265
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· <b>14.2 UN proper shipping name</b>
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· <b>ADR</b>	3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-m)
· <b>IMDG, IATA</b>	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6])

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#### · 14.3 Transport hazard class(es)

##### · ADR, IMDG



· Class 8 Corrosive substances.  
 · Label 8

##### · IATA



· Label 8

#### · 14.4 Packing group

· ADR, IMDG, IATA II

#### · 14.5 Environmental hazards:

· Marine pollutant: No  
 Symbol (fish and tree)  
 · Special marking (ADR): Symbol (fish and tree)

#### · 14.6 Special precautions for user

Warning: Corrosive substances.  
 · Hazard identification number (Kemler code): 80  
 · EMS Number: F-A,S-B  
 · Segregation groups Acids

#### · 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

#### · Transport/Additional information:

##### · ADR

· Limited quantities (LQ) LQ22  
 · Transport category 2  
 · Tunnel restriction code E

##### · UN "Model Regulation":

UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)), ENVIRONMENTALLY HAZARDOUS, 8, II

## SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
 Regulation (EU) N° 1907/2006, (REACH) and further modifications.  
 Regulation (EU) N° 1272/2008, (CLP) and further modifications.  
 Regulation (EU) N° 528/2012  
 ADR 2021

· Labelling according to Regulation (EC) No 1272/2008 See section 2

· Directive 2012/18/EU

· Seveso category Hazardous to the Aquatic Environment

· Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

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· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **National regulations:** D.Lgs 81/2008 and further modifications ( Italy)

· **Other regulations, limitations and prohibitive regulations** Not applicable

· **Substances of very high concern (SVHC) according to REACH, Article 57** None

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **16.10 Italian Poison Control Centres telephone numbers contactable:**

CAVp Osp. Pediatrico Bambino Gesù - Roma, tel. 0039 06 68593726

Az. Osp. Univ. Foggia - Foggia, tel. 0039 0881 732326

Az. Osp. A. Cardarelli - Napoli tel. 0039 081 7472870

CAV Policlinico Umberto I- Roma, tel. 0039 06 49978000

CAV Policlinico A. Gemelli - Roma, tel. 0039 06 3054343

Az. Osp. Careggi U.O. Tossicologia Medica – Firenze, tel. 0039 055 7947819

CAV Centro Nazionale di Informazione Tossicologica – Pavia, tel. 0039 0382 24444

Osp. Niguarda Cà Granda – Milano, Tel. 0039 02 66101029

Azienda Ospedaliera Papa Giovanni XXII- Bergamo, tel. 0039 800883300

· **Relevant phrases**

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **Department issuing SDS:** Research and development department

· **Contact:** Drssa Baggio E-mail: baggio@acquaflex.com

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

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*PNEC: Predicted No-Effect Concentration (REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Acute Tox. 3: Acute toxicity – Category 3**Acute Tox. 4: Acute toxicity – Category 4**Acute Tox. 2: Acute toxicity – Category 2**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Skin Corr. 1C: Skin corrosion/irritation – Category 1C**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Skin Sens. 1: Skin sensitisation – Category 1**Skin Sens. 1A: Skin sensitisation – Category 1A**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1***\* Data compared to the previous version altered.**

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