

## **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

# **Sulfate Photometer**

Revision date 01-07-2025 Revision Number 1

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

#### 1.1. Product identifier

Product Code(s) PPPSULP

Product Name Sulfate Photometer

Unique Formula Identifier (UFI) YUKD-DYMR-DW1M-E2MN

**Pure substance/mixture** Mixture Contains Barium chloride (BaCl2), dihydrate

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

Recommended use Reagent for water analysis

Uses advised against Others

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

### **Manufacturer**

Water-i.d. GmbH Daimlerstr. 20

76344 Eggenstein, Germany

Tel.: +49 (0) 721 78 20 29 0, Fax: +49 (0) 721 78 20 29 11

Website: www.water-id.com

EHS / Compliance: lab@water-id.com

# 1.4. Emergency telephone number

Emergency Telephone +44 1235 239670

English, Albanian, Bosnian, Bulgarian, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Turkish and Ukrainian.

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 2 - (H319)

### 2.2. Label elements

Contains Barium chloride (BaCl2), dihydrate



Signal word Warning

#### **Hazard statements**

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

### Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust, fume, gas, mist, vapors and spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P280 - Wear eye and face protection

P312 - Call a POISON CENTER or doctor if you feel unwell

P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

#### **Additional information**

This product requires tactile warnings if supplied to the general public.

#### 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Sodium chloride 7647-14-5	70-90	No data available	231-598-3	Not classified			
Barium chloride (BaCl2), dihydrate 10326-27-9	5-15	No data available	-	Acute Tox. 3 (H301) Acute Tox. 4 (H332)			
Hexanedioic acid 124-04-9	1-10	No data available	204-673-3	Eye Irrit. 2 (H319)			
Polyethylene glycol 25322-68-3	1-5	No data available	-	Not classified			

### Full text of H- and EUH-phrases: see section 16

### **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
	mg/kg	mg/kg	hour - dust/mist - mg/L	hour - vapour - mg/L	hour - gas - ppm

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Sodium chloride 7647-14-5	3550	10000			
Barium chloride (BaCl2), dihydrate 10326-27-9	118				
Hexanedioic acid 124-04-9	11000	7940	7.7		
Polyethylene glycol 25322-68-3	22000	20000			

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

# SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. If symptoms persist, call a doctor.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

**Skin contact** Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

doctor.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get medical attention.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing dust/fume/gas/mist/vapours/spray. Use personal protective

equipment as required. See section 8 for more information.

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

**Symptoms** May cause redness and tearing of the eyes. Burning sensation. Coughing and/ or

wheezing. Difficulty in breathing.

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

**Note to doctors**Treat symptomatically.

## **SECTION 5: Firefighting measures**

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Revision date 01-07-2025

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

# SECTION 6: Accidental release measures

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

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust.

**Other information** Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

# SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid generation of dust. Ensure adequate ventilation.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Avoid breathing

dust/fume/gas/mist/vapours/spray.

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

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children.

#### 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

# **Exposure Limits**

Chemical name	European U	Jnion	Austria	Belgium	Bu	Igaria	Croatia
Barium chloride (BaCl2), dihydrate 10326-27-9	TWA: 0.5 m		TWA: 0.5 mg/m <sup>3</sup> STEL 2 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>		0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>
Hexanedioic acid 124-04-9	-		-	TWA: 5 mg/m <sup>3</sup>		-	-
Polyethylene glycol 25322-68-3	-		TWA: 1000 mg/m <sup>3</sup> STEL 4000 mg/m <sup>3</sup>	-		-	-
Chemical name	Cyprus		Czech Republic	Denmark	Es	stonia	Finland
Barium chloride (BaCl2), dihydrate 10326-27-9	TWA: 0.5 m	ıg/m³	TWA: 0.5 mg/m³ Ceiling: 2.5 mg/m³	TWA: 0.5 mg/m <sup>3</sup>	TWA: (	0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>
Hexanedioic acid 124-04-9	-		-	TWA: 5 mg/m <sup>3</sup>		-	TWA: 5 mg/m <sup>3</sup>
Polyethylene glycol 25322-68-3	-		-	TWA: 1000 mg/m <sup>3</sup>		-	-
Chemical name	France		Germany TRGS	Germany DFG		reece	Hungary
Barium chloride (BaCl2), dihydrate 10326-27-9	TWA: 0.5 m	ıg/m³	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup> Peak: 4 mg/m <sup>3</sup>	TWA: (	0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>
Hexanedioic acid 124-04-9	-		TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> Peak: 4 mg/m <sup>3</sup>		-	-
Polyethylene glycol 25322-68-3	-		TWA: 200 mg/m <sup>3</sup>	TWA: 250 mg/m <sup>3</sup> Peak: 500 mg/m <sup>3</sup>		-	-
Chemical name	Ireland		Italy MDLPS	Italy AIDII	L	atvia	Lithuania
Sodium chloride 7647-14-5	-		-	-	TWA:	5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
Barium chloride (BaCl2), dihydrate 10326-27-9	TWA: 0.5 m STEL: 1.5 m	ng/m³	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: (	0.5 mg/m <sup>3</sup> *	TWA: 0.5 mg/m <sup>3</sup>
Hexanedioic acid 124-04-9	TWA: 5 mg STEL: 15 m		-	TWA: 5 mg/m <sup>3</sup>	TWA:	4 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>
Chemical name	Luxembo	urg	Malta	Netherlands	No	orway	Poland
Barium chloride (BaCl2), dihydrate 10326-27-9	TWA: 0.5 m	ıg/m³	-	TWA: 0.5 mg/m <sup>3</sup>	STEL:	1.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>
Hexanedioic acid 124-04-9	-		-	-		-	STEL: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>
Chemical name	Portuga		Romania	Slovakia		ovenia	Spain
Barium chloride (BaCl2), dihydrate 10326-27-9	TWA: 0.5 m	ıg/m³	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>		0.5 mg/m³ TEL mg/m³	TWA: 0.5 mg/m <sup>3</sup>
Hexanedioic acid 124-04-9	TWA: 5 mg	g/m³	-	-		2 mg/m³ TEL mg/m³	TWA: 5 mg/m <sup>3</sup>
Polyethylene glycol 25322-68-3	-		-	TWA: 1000 mg/m <sup>3</sup>	TWA: 1	000 mg/m <sup>3</sup> TEL mg/m <sup>3</sup>	-
Chemical name		S	weden	Switzerland			ted Kingdom
Barium chloride (BaCl: dihydrate 10326-27-9	2),	NGV:	0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m STEL: 4 mg/m		TW	A: 0.5 mg/m <sup>3</sup>
Hexanedioic acid 124-04-9			-	TWA: 3 mg/m³ - STEL: 6 mg/m³		-	
Polyethylene glycol 25322-68-3			-	TWA: 500 mg/n	n <sup>3</sup>		-

**Biological occupational exposure limits** 

Revision date 01-07-2025

Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
Barium chloride (BaCl2),	-	-	-	10 μg/L - BAR (end	-
dihydrate				of exposure or end	
10326-27-9				of shift) urine	
				10 μg/L - BAR (for	
				long-term	
				exposures: at the	
				end of the shift after	
				several shifts) urine	

**Derived No Effect Level (DNEL) Predicted No Effect Concentration** (PNEC)

No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection If splashes are likely to occur, wear safety glasses with side-shields.

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do General hygiene considerations

not eat, drink or smoke when using this product. Avoid breathing

dust/fume/gas/mist/vapours/spray.

No information available. **Environmental exposure controls** 

# SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

**Physical state** Solid **Appearance** Powder Colour white Odour Odourless.

**Odour threshold** 

Property Values Remarks • Method

Melting point / freezing point No data available None known Boiling point / boiling range No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive

limits

No data available

Lower flammability or explosive No data available

limits

No data available Flash point None known No data available None known **Autoignition temperature Decomposition temperature** None known

pН

4.5 None known pH (as aqueous solution) No data available No information available

Kinematic viscosity No data available None known

**Dvnamic viscosity** No data available None known Water solubility No data available None known PPPSULP - Sulfate Photometer

Revision date 01-07-2025

None known

No data available Solubility(ies) None known Partition coefficient No data available None known Vapour pressure No data available None known Relative density No data available None known

**Bulk density** No data available No data available **Liquid Density** No data available

Relative vapour density

Particle characteristics **Particle Size** 

**Particle Size Distribution** 

### 9.2. Other information

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics

# SECTION 10: Stability and reactivity

10.1. Reactivity

No information available. Reactivity

10.2. Chemical stability

Stable under normal conditions. Stability

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

# SECTION 11: Toxicological information

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

**Product Information** 

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. Harmful by inhalation. (based on components).

Specific test data for the substance or mixture is not available. Causes serious eye irritation. Eye contact

(based on components). May cause redness, itching, and pain.

Revision date 01-07-2025

\_\_\_\_\_

**Skin contact** Specific test data for the substance or mixture is not available. May cause irritation.

Prolonged contact may cause redness and irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if swallowed. (based on

components).

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** May cause redness and tearing of the eyes. Coughing and/ or wheezing.

Numerical measures of toxicity

### **Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 772.90 mg/kg
ATEmix (dermal) 9,223.50 mg/kg
ATEmix (inhalation-dust/mist) 1.97 mg/l

#### Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

83 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium chloride	= 3550 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 42 mg/L (Rat)1 h
Barium chloride (BaCl2), dihydrate	= 118 mg/kg (Rat)		> 1.1 mg/L (Rat)243 min
Hexanedioic acid	> 11000 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	> 7700 mg/m³(Rat)4 h
Polyethylene glycol	= 22 g/kg (Rat)	> 20 g/kg (Rabbit)	

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity**No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** 

No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** 

11.2.2. Other information

Other adverse effects

# **SECTION 12: Ecological information**

## 12.1. Toxicity

### **Ecotoxicity**

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium chloride	-	LC50: 4747 - 7824mg/L (96h, Oncorhynchus mykiss) LC50: 5560 - 6080mg/L (96h, Lepomis macrochirus) LC50: 6020 - 7070mg/L (96h, Pimephales promelas) LC50: 6420 - 6700mg/L (96h, Pimephales promelas) LC50: =12946mg/L (96h, Lepomis macrochirus) LC50: =7050mg/L (96h, Pimephales promelas)	-	EC50: 340.7 - 469.2mg/L (48h, Daphnia magna) EC50: =1000mg/L (48h, Daphnia magna)
Barium chloride (BaCl2), dihydrate	-	-	-	EC50: =14.5mg/L (48h, Daphnia magna)
Hexanedioic acid	EC50: =26.6mg/L (96h, Desmodesmus subspicatus) EC50: =31.3mg/L (72h, Desmodesmus subspicatus) EC50: =35mg/L (96h, Desmodesmus subspicatus) EC50: =66mg/L (72h, Desmodesmus subspicatus)	LC50: =59.5mg/L (96h, Danio rerio) LC50: =97mg/L (96h, Pimephales promelas)	-	EC50: =85.7mg/L (48h, Daphnia magna) EC50: =88.4mg/L (48h, Daphnia magna)

# 12.2. Persistence and degradability

Persistence and degradability

12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

**Component Information** 

Chemical name	Partition coefficient
Hexanedioic acid	0.093

### 12.4. Mobility in soil

Mobility in soil

### 12.5. Results of PBT and vPvB assessment

### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Sodium chloride	The substance is not PBT / vPvB PBT assessment does
	not apply
Barium chloride (BaCl2), dihydrate	The substance is not PBT / vPvB
Hexanedioic acid	The substance is not PBT / vPvB PBT assessment does
	not apply
Polyethylene glycol	The substance is not PBT / vPvB

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** 

### 12.7. Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# **SECTION 14: Transport information**

1	١	T	1	١

14.1 UN number or ID number Not regulated

14.2

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

<u>IMDG</u>

14.1 UN number or ID number Not regulated

14.2

14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Marine pollutantNot applicable

14.6 Special precautions for user

Special Provisions None

14.7 Maritime transport in bulk according to IMO instruments

<u>RID</u>

### PPPSULP - Sulfate Photometer

Revision date 01-07-2025

14.1 UN number or ID number Not regulated

14.2

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

ADR

14.1 UN number or ID number Not regulated

14.2

14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special precautions for user

Special Provisions None

# SECTION 15: Regulatory information

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

### National regulations

### **France**

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Sodium chloride	RG 78	-
7647-14-5		

Water hazard class (WGK) slightly hazardous to water (WGK 1)

#### **European Union**

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.

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

## **Persistent Organic Pollutants**

Not applicable

### Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable

EU - Plant Protection Products (1107/2009/EC)

Chemical name	EU - Plant Protection Products (1107/2009/EC)
Sodium chloride - 7647-14-5	Plant protection agent

**International Inventories** 

TSCA Complies
DSL/NDSL Does not comply
EINECS/ELINCS Does not comply
ENCS Complies
IECSC Complies
KECL Does not comply

\_\_\_\_\_\_

PICCS Complies Complies

# Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

### **Chemical Safety Report**

# **SECTION 16: Other information**

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of any hazard and/or precautionary statements referred to under Sections 2-15

H301 - Toxic if swallowed

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

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

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

# Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

PPPSULP - Sulfate Photometer

Revision date 01-07-2025

\_\_\_\_\_

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

**Revision date** 

01-07-2025

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

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.

**End of Safety Data Sheet**