

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

1.1. Product identifier

Trade name or designation of the mixture L'ORÉAL PROFESSIONNEL BLOND STUDIO BLEACH POWDER
Synonyms None.
SDS number 00-23-0000008
Product code 1240745 M
Issue date 05-06-2020
Version number 01

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

Identified uses Personal care product used for cosmetic effect.
Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Address Productos Capilares L'Oreal SA
 Poligono Industrial de Villalonquejar - Calle López Bravo - 78 Apartado 517
 Burgos 09001
 Spain

Emergency Phone # : + 34 947 258 300

For further information: +1-732-499-2741

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Respiratory sensitization	Category 1	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization	Category 1	H317 - May cause an allergic skin reaction.
Specific target organ toxicity - single exposure	Category 3 respiratory tract irritation	H335 - May cause respiratory irritation.

Hazard summary

Causes serious eye damage. Causes skin irritation. May cause irritation to the respiratory system. Exposure to powder or dusts may be irritating to eyes, nose and throat. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Occupational exposure to the substance or mixture may cause adverse health effects. This is a consumer care product that is safe for consumers when used according to the label directions. Like many consumer products, a small number of individuals may experience reactions such as redness, rash and / or swelling upon prolonged or repeated skin contact or eye contact.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: POTASSIUM PERSULFATE, SODIUM METASILICATE, SODIUM PERSULFATE, SODIUM SILICATE

Hazard pictograms



Signal word

Danger

Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

Precautionary statements

Prevention

P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe dust.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear eye protection/face protection.
P280	Wear protective gloves.
P284	Wear respiratory protection.

Response

P101	If medical advice is needed, have product container or label at hand.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Supplemental label information 71,1% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 94,7% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
POTASSIUM PERSULFATE	29,8	7727-21-1 231-781-8	01-2119495676-19	016-061-00-1	
Classification:					Ox. Sol. 3;H272, Acute Tox. 4;H302, Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, Resp. Sens. 1;H334, STOT SE 3;H335
SODIUM SILICATE	18,2	1344-09-8 215-687-4	01-2119448725-31	-	
Classification:					Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT SE 3;H335
SODIUM PERSULFATE	5,4	7775-27-1 231-892-1	01-2119495975-15	-	
Classification:					Ox. Sol. 3;H272, Acute Tox. 4;H302, Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, Resp. Sens. 1;H334, STOT SE 3;H335
SODIUM METASILICATE	2	6834-92-0 229-912-9	01-2119449811-37	014-010-00-8	
Classification:					Met. Corr. 1;H290, Acute Tox. 4;H302, Skin Corr. 1B;H314, Eye Dam. 1;H318, STOT SE 3;H335

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a poison center or doctor/physician.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media Water spray. Foam. Powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures Use water spray to cool unopened containers.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Minimize dust generation and accumulation. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Belgium. Exposure Limit Values.

Components	Type	Value	Form
KAOLIN (CAS 1332-58-7)	TWA	2 mg/m ³	Respirable fraction.
MAGNESIUM OXIDE (CAS 1309-48-4)	TWA	10 mg/m ³	Fume.
MINERAL OIL (CAS 8042-47-5)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.
POTASSIUM PERSULFATE (CAS 7727-21-1)	TWA	0,1 mg/m ³	
SODIUM PERSULFATE (CAS 7775-27-1)	TWA	0,1 mg/m ³	
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m ³	

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value	Form
KAOLIN (CAS 1332-58-7)	VME	5 mg/m ³	Respirable fraction.
Regulatory status:	Regulatory binding (VRC)		
		10 mg/m ³	Inhalable fraction.
Regulatory status:	Regulatory binding (VRC)		
		10 mg/m ³	
Regulatory status:	Indicative limit (VL)		
MAGNESIUM OXIDE (CAS 1309-48-4)	VME	10 mg/m ³	Fume.
Regulatory status:	Indicative limit (VL)		
TITANIUM DIOXIDE (CAS 13463-67-7)	VME	10 mg/m ³	
Regulatory status:	Indicative limit (VL)		

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
KAOLIN (CAS 1332-58-7)	TWA	4 mg/m ³	Inhalable dust.

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
		0,3 mg/m ³	Respirable dust.
MAGNESIUM OXIDE (CAS 1309-48-4)	TWA	4 mg/m ³	Inhalable fraction.
		0,3 mg/m ³	Respirable fraction.
MINERAL OIL (CAS 8042-47-5)	TWA	5 mg/m ³	Respirable fraction.
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	0,3 mg/m ³	Respirable fraction.

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
KAOLIN (CAS 1332-58-7)	AGW	10 mg/m ³	Inhalable fraction.
		1,25 mg/m ³	Respirable fraction.
MAGNESIUM OXIDE (CAS 1309-48-4)	AGW	10 mg/m ³	Inhalable fraction.
		1,25 mg/m ³	Respirable fraction.
MINERAL OIL (CAS 8042-47-5)	AGW	5 mg/m ³	Respirable fraction.
TITANIUM DIOXIDE (CAS 13463-67-7)	AGW	10 mg/m ³	Inhalable fraction.
		1,25 mg/m ³	Respirable fraction.

Italy. Occupational Exposure Limits

Components	Type	Value	Form
KAOLIN (CAS 1332-58-7)	TWA	2 mg/m ³	Respirable fraction.
MAGNESIUM OXIDE (CAS 1309-48-4)	TWA	10 mg/m ³	Inhalable fraction.
MINERAL OIL (CAS 8042-47-5)	TWA	5 mg/m ³	Inhalable fraction.
POTASSIUM PERSULFATE (CAS 7727-21-1)	TWA	0,1 mg/m ³	
SODIUM PERSULFATE (CAS 7775-27-1)	TWA	0,1 mg/m ³	
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m ³	

Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817

Components	Type	Value	Form
KAOLIN (CAS 1332-58-7)	TWA	10 mg/m ³	Inhalable fraction.
MAGNESIUM OXIDE (CAS 1309-48-4)	TWA	10 mg/m ³	Inhalable fraction.
MINERAL OIL (CAS 8042-47-5)	TWA	5 mg/m ³	Inhalable fraction.
POTASSIUM PERSULFATE (CAS 7727-21-1)	TWA	0,1 mg/m ³	Inhalable fraction.
TITANIUM DIOXIDE (CAS 13463-67-7)	STEL	30 mg/m ³	
	TWA	10 mg/m ³	Inhalable fraction.

Spain. Occupational Exposure Limits

Components	Type	Value	Form
KAOLIN (CAS 1332-58-7)	TWA	2 mg/m ³	Respirable fraction.
MAGNESIUM OXIDE (CAS 1309-48-4)	TWA	10 mg/m ³	Dust and fume.
MINERAL OIL (CAS 8042-47-5)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.

Spain. Occupational Exposure Limits

Components	Type	Value	Form
POTASSIUM PERSULFATE (CAS 7727-21-1)	TWA	0,1 mg/m ³	
SODIUM PERSULFATE (CAS 7775-27-1)	TWA	0,1 mg/m ³	
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m ³	

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection Applicable for industrial settings only. Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.

Skin protection

- Hand protection Applicable for industrial settings only. Wear appropriate chemical resistant gloves.

- Other Applicable for industrial settings only. Wear appropriate chemical resistant clothing.

Respiratory protection Applicable for industrial settings only. Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

Environmental exposure controls Not available.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance**

Physical state Solid.

Form Powder.

Color Beige. Shaded

Odor Characteristic.

Odor threshold Not available.

pH 10 - 10,6 Not applicable.

Melting point/freezing point Not available.

Initial boiling point and boiling range > 212 °F (> 100 °C) Not applicable.

Flash point > 212,0 °F (> 100,0 °C) Closed Cup Not applicable.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidizing agents.

10.6. Hazardous decomposition products No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

11.1. Information on toxicological effects

Acute toxicity Not known.

Product	Species	Test Results
L'ORÉAL PROFESSIONNEL BLOND STUDIO BLEACH POWDER		
Acute		
Oral		
ATEmix		2514 mg/kg
Components	Species	Test Results
POTASSIUM PERSULFATE (CAS 7727-21-1)		
Acute		
Dermal		
LD50	Rabbit	> 10000 mg/kg
Inhalation		
LC50	Rat	> 42,9 mg/l, 1 h

Components	Species	Test Results
Oral		
LD50	Rat	1130 mg/kg OECD 401
SODIUM METASILICATE (CAS 6834-92-0)		
Acute		
Dermal		
LD50	Rat	> 5000 mg/kg Based on test data for structurally similar materials.
Inhalation		
LC50	Rat	> 2,06 mg/l, 4.4 h Based on test data for structurally similar materials.
Oral		
LD50	Rat	1152 mg/kg
SODIUM PERSULFATE (CAS 7775-27-1)		
Acute		
Dermal		
LD50	Rabbit	> 10000 mg/kg
Inhalation		
<i>Dust</i>		
LC50	Rat	> 5,1 mg/l, 4 h OECD 403
Oral		
LD50	Rat	920 mg/kg OECD 401
SODIUM SILICATE (CAS 1344-09-8)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg bw EPA OPPTS 870.1200
Inhalation		
LC50	Rat	> 2,06 mg/L air, 4.4 h EPA OPPTS 870.1300
Oral		
LD50	Rat	3400 mg/kg bw OECD 401
Skin corrosion/irritation	Causes skin irritation.	
Irritation Corrosion - Skin		
SODIUM METASILICATE		OECD 404 Result: Corrosive Species: Rabbit
SODIUM SILICATE		OECD 404 Result: Irritating Species: Rabbit
POTASSIUM PERSULFATE		Result: Irritating Species: Human
SODIUM PERSULFATE		Result: Irritating Species: Human
Serious eye damage/eye irritation	Causes serious eye damage.	
Irritation Corrosion - Eye		
SODIUM METASILICATE		IRE Result: Corrosive Species: In vitro
SODIUM SILICATE		Result: Corrosive Species: Rabbit
POTASSIUM PERSULFATE		Result: Irritating Species: Human
SODIUM PERSULFATE		Result: Irritating Species: Human
Respiratory sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
POTASSIUM PERSULFATE		Result: Sensitizing Species: Human
SODIUM PERSULFATE		Result: Sensitizing Species: Human
Skin sensitization	May cause an allergic skin reaction.	

Sensitization		
SODIUM PERSULFATE		OECD 406 Result: Sensitizing Species: Guinea pig
SODIUM SILICATE		OECD 429 Result: Not Sensitizing Species: Mouse
POTASSIUM PERSULFATE		OECD 429 Result: Sensitizing Species: Mouse
Skin sensitization		
SODIUM PERSULFATE		OECD 406 Result: Sensitizing Species: Guinea pig
SODIUM METASILICATE		OECD 429 Result: Not Sensitizing Species: Mouse
POTASSIUM PERSULFATE		OECD 429 Result: Sensitizing Species: Guinea pig
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.	
Mutagenicity		
SODIUM METASILICATE		Result: In vitro and in vivo tests did not show mutagenic effects.
SODIUM PERSULFATE		Result: In vitro and in vivo tests did not show mutagenic effects.
SODIUM SILICATE		Result: In vitro and in vivo tests did not show mutagenic effects.
POTASSIUM PERSULFATE		Result: In vitro tests did not show mutagenic effects
Carcinogenicity	Not classifiable as to carcinogenicity to humans. Due to partial or complete lack of data the classification is not possible.	
Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)		
	Not listed.	
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.	
Developmental effects		
SODIUM METASILICATE		> 200 mg/kg bw/d Result: NOAEL Species: Mouse
SODIUM SILICATE		> 200 mg/kg bw/d Result: NOAEL Species: Rat
Reproductivity		
SODIUM METASILICATE		> 159 mg/kg bw/d Result: NOAEL Species: Rat
SODIUM SILICATE		> 159 mg/kg bw/d, Oral Result: NOAEL Species: Rat
Specific target organ toxicity - single exposure	May cause respiratory irritation.	
SODIUM METASILICATE		Result: Irritating
SODIUM SILICATE		Result: Irritating
POTASSIUM PERSULFATE		Result: Irritating Species: Human
SODIUM PERSULFATE		Result: Irritating Species: Human
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.	
SODIUM METASILICATE		> 227 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat Test Duration: 90 d
POTASSIUM PERSULFATE		131,5 mg/kg bw/d OECD 407 Result: NOAEL Species: Rat Test Duration: 28 d

Specific target organ toxicity - repeated exposure

SODIUM PERSULFATE

200 mg/kg bw/d OECD 408

Result: LOAEL

Species: Rat

SODIUM SILICATE

2400 mg/kg bw/d OECD 407

Result: NOAEL

Species: Rat

Test Duration: 28 d

Aspiration hazard

Due to partial or complete lack of data the classification is not possible.

Mixture versus substance information

No information available.

Other information

May cause allergic respiratory and skin reactions. The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

SECTION 12: Ecological information**12.1. Toxicity**

Based on available data, the classification criteria are not met for hazardous to the aquatic environment.

Components		Species	Test Results
SODIUM METASILICATE (CAS 6834-92-0)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	> 207 mg/l, 72 h DIN 38412, Pt. 9
Crustacea	EC50	Daphnia magna	> 1700 mg/l, 48 h EU C.2
Fish	LC50	Danio rerio	> 210 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	100 mg/l, 3 h OECD 209
SODIUM PERSULFATE (CAS 7775-27-1)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	116 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	133 mg/l, 48 h EPA OPP 72-2
Fish	LC50	Oncorhynchus mykiss	163 mg/l, 96 h EPA OPP 72-1
SODIUM SILICATE (CAS 1344-09-8)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Desmodesmus subspicatus	> 345,4 mg/l, 72 h DIN 38412 Part 9
Crustacea	EC50	Daphnia magna	1700 mg/l, 48 h EU C.2
Fish	LC50	Danio rerio	1108 mg/l, 96 h OECD 203
Other	EC0	Pseudomonas putida	3454 mg/l, 30 min DIN 38412 Part 27

12.2. Persistence and degradability**Biodegradability****Percent degradation (Aerobic biodegradation)**

POTASSIUM PERSULFATE

Result: Not expected to bioaccumulate

12.3. Bioaccumulative potential**12.4. Mobility in soil**

No data available.

12.5. Results of PBT and vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.7. Additional information

The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Residual waste**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

FINISHED GOODS

14.1. - 14.6.: Not regulated as dangerous goods.

BULK

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

FINISHED GOODS

14.1. - 14.6.: Not regulated as dangerous goods.

BULK

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

FINISHED GOODS

14.1. - 14.6.: Not regulated as dangerous goods.

BULK

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

SODIUM METASILICATE (CAS 6834-92-0)

SODIUM SILICATE (CAS 1344-09-8)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

POTASSIUM PERSULFATE (CAS 7727-21-1)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H272 May intensify fire; oxidizer.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.

Revision information

None.

Training information

Follow training instructions when handling this material.

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.