



Huwell Chemicals Spa a socio unico

Revision nr. 1
Dated 13/03/2025
First compilation
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BLONDE VOYAGE CLAY LIGHTENER

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

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

1.1. Product identifier

Code: 15195
Product name: BLONDE VOYAGE CLAY LIGHTENER

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

Intended use: Bleaching powder for hair

1.3. Details of the supplier of the safety data sheet

Name: Huwell Chemicals Spa
Full address: Via Darwin 69/79
District and Country: 20019 Settimo Milanese (MI)
Italy
Tel. +39 02 33501936
Fax +39 02 33576555

e-mail address of the competent person
responsible for the Safety Data Sheet

lab1@huwell.it

1.4. Emergency telephone number

For urgent inquiries refer to

Azienda ospedaliera "Antonio Cardarelli", III Servizio di anestesia e rianimazione, via Antonio Cardarelli 9, Napoli;
Azienda ospedaliera universitaria Careggi, U.O. Tossicologia medica, via Largo Brambilla 3, Firenze;
Centro nazionale d'informazione tossicologica, IRCCS Fondazione Salvatore Maugeri
Clinica del lavoro e della riabilitazione, via Salvatore Maugeri 10, Pavia;
Azienda ospedaliera Niguarda Ca' Grande, piazza Ospedale Maggiore 3, Milano;
Azienda ospedaliera "Papa Giovanni XXIII", tossicologia clinica, Dipartimento di farmacia clinica e farmacologia, piazza OMS 1, Bergamo;
Policlinico "Umberto I", PRGM tossicologia d'urgenza, viale del Policlinico 155, Roma;
del Policlinico "Agostino Gemelli", Servizio di tossicologia clinica, largo Agostino Gemelli 8, Roma;
Azienda ospedaliera universitaria riuniti, viale Luigi Pinto 1, Foggia;
Ospedale pediatrico Bambino Gesù, Dipartimento emergenza e accettazione DEA, piazza Sant'Onofrio 4, Roma;
dell'Azienda ospedaliera universitaria integrata (AOUI) di Verona sede di Borgo Trento, piazzale Aristide Stefani, 1 - 37126 Verona.

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and



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supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Oxidising solid, category 3	H272	May intensify fire; oxidiser.
Acute toxicity, category 4	H302	Harmful if swallowed.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
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.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements:

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P220	Keep away from clothing and other combustible materials.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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

P310 Immediately call a POISON CENTER / doctor / . . .

P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.

P370+P378 In case of fire: use . . . to extinguish.

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

Contains: SODIUM SILICATE
DISODIUM METASILICATE
SODIUM PERSULFATE
DIPOTASSIUM PEROXODISULPHATE
AMMONIUM PEROXYDISULPHATE

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration $\geq$ 0.1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
SODIUM PERSULFATE		
INDEX -	$20 \leq x < 25$	Ox. Sol. 3 H272, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317 LD50 Oral: 895 mg/kg
EC 231-892-1		
CAS 7775-27-1		
REACH Reg. 01-2119495975-15-0000		
DIPOTASSIUM PEROXODISULPHATE		
INDEX 016-061-00-1	$20 \leq x < 25$	Ox. Sol. 3 H272, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317 LD50 Oral: 1130 mg/kg
EC 231-781-8		
CAS 7727-21-1		



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REACH Reg. 01-2119495676-19-0000

SODIUM SILICATE

INDEX - $10 \leq x < 20$ Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335

EC 215-687-4

CAS 1344-09-8

REACH Reg. 01-2119448725-31-0011

AMMONIUM

PEROXYDISULPHATE

INDEX 016-060-00-6 $5 \leq x < 10$ Ox. Sol. 3 H272, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317
ATE Oral: 500 mg/kg

EC 231-786-5

CAS 7727-54-0

REACH Reg. 01-2119495973-19-0000

DISODIUM METASILICATE

INDEX 014-010-00-8 $3 \leq x < 5$ Met. Corr. 1 H290, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335

EC 229-912-9

CAS 6834-92-0

REACH Reg. 01-2119449811-37-xxxx

MINERAL OIL

INDEX - $1 \leq x < 5$ Asp. Tox. 1 H304

EC 232-455-8

CAS 8042-47-5

REACH Reg. 01-2119487078-27-0000

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.



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

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

Immediately call a POISON CENTER / doctor / . . .

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.



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6.3. Methods and material for containment and cleaning up

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

ESP España Límites de exposición profesional para agentes químicos en España 2023
TLV-ACGIH ACGIH 2023

DIPOTASSIUM PEROXODISULPHATE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0763	mg/l
Normal value in marine water	0,011	mg/l
Normal value for fresh water sediment	0,275	mg/kg
Normal value for marine water sediment	0,0396	mg/kg
Normal value for water, intermittent release	0,763	mg/l
Normal value of STP microorganisms	3,6	mg/l
Normal value for the terrestrial compartment	0,015	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic



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Oral	30 mg/kg bw/d			9,1 mg/kg bw/d				
Inhalation	295 mg/m3	295 mg/m3	1,03 mg/m3	1,03 mg/m3	590 mg/m3	2,06 mg/m3	2,06 mg/m3	
Skin	1,124 mg/cm2	200 mg/kg bw/d	0,051 mg/cm2	9,1 mg/kg bw/d	2,248 mg/cm2	400 mg/kg bw/d	0,102 mg/cm2	18.2 mg/kg bw/d

SODIUM PERSULFATE

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	

VLA	ESP	0,1		
TLV-ACGIH		0,1		

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,518	mg/l
Normal value in marine water	0,052	mg/l
Normal value for fresh water sediment	2,03	mg/kg
Normal value for marine water sediment	0,203	mg/kg
Normal value for water, intermittent release	0,763	mg/l
Normal value of STP microorganisms	3,6	mg/l
Normal value for the terrestrial compartment	0,1	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		1,37 mg/kg bw/d		0,46 mg/kg bw/d				
Inhalation	295	295	0,421 mg/m3	1,03	590		0,824 mg/m3	2,06
Skin			0,051	4,6 mg/kg bw/d			0,102	9,1 mg/kg bw/d

SODIUM SILICATE

Predicted no-effect concentration - PNEC

Normal value in fresh water	7,5	mg/l
Normal value for marine water sediment	1	mg/l
Normal value for water, intermittent release	7,5	mg/l
Normal value of STP microorganisms	348	mg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	0,80 mg/kg bw/d				
Inhalation			VND	1,38 mg/m3			VND	5,61 mg/m3
Skin			VND	0,8 mg/kg bw/d			VND	1,59 mg/kg bw/d

AMMONIUM PEROXYDISULPHATE

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
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		mg/m3	ppm	mg/m3	ppm			
VLA	ESP	0,1						
TLV-ACGIH		0,1						
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,0763	mg/l			
Normal value in marine water				0,011	mg/l			
Normal value for fresh water sediment				0,275	mg/kg			
Normal value for marine water sediment				0,0396	mg/kg			
Normal value for water, intermittent release				0,763	mg/l			
Normal value of STP microorganisms				3,6	mg/l			
Normal value for the terrestrial compartment				0,015	mg/kg			
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		30 mg/kg bw/d		9,1 mg/kg bw/d				
Inhalation	295 mg/m3	295 mg/m3	1,03 mg/m3	1,03 mg/m3		590 mg/m3	2,06 mg/m3	2,06 mg/m3
Skin	1,124 mg/cm2	200 mg/kg bw/d	0,051 mg/cm2	9,1 mg/kg bw/d	2,248 mg/cm2	400 mg/kg bw/d	0,102 mg/cm2	18,2 mg/kg bw/d
DISODIUM METASILICATE								
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,74 mg/kg bw/d				
Inhalation				1,55 mg/m3		6,22		6,22 mg/m3
Skin				0,74 mg/kg bw/d				1,49 mg/kg bw/d
MINERAL OIL								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		5						
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	40 mg/kg bw/d				
Inhalation			VND	35 mg/m3			VND	160 mg/m3
Skin			VND	92 mg/kg bw/d			VND	220 mg/kg bw/d

Legend:



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(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for particulate not otherwise classified (PNOC respirable fraction: 3 mg/m³; PNOC inhalable fraction: 10 mg/m³). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment. The above values are not TLVs, but guide values, to be used for particles that do not have their own TLV and that are insoluble or poorly soluble in water and have low toxicity.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN ISO 16321).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

RESPIRATORY PROTECTION

Use a type P filtering facemask, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment (see standard EN 149).

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	powder	
Colour	white	



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Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	10,1-11,1	Concentration: 1 %
Kinematic viscosity	not available	
Solubility	partially soluble	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	not available	
Relative vapour density	not available	
Particle characteristics	not available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

SODIUM PERSULFATE

Decomposes at temperatures above 145°C/293°F.

With water it reduces to bisulphate with the development of oxygen.

DISODIUM METASILICATE

The aqueous solutions act as: strong bases.



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10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The powders are potentially explosive when mixed with air.

SODIUM PERSULFATE

Reacts violently with: combustible substances, reducing substances. Fire hazard. Possibility of explosion.

DISODIUM METASILICATE

May react dangerously with: fluorine, lithium.

10.4. Conditions to avoid

Avoid environmental dust build-up.

SODIUM PERSULFATE

Evitare l'umidità.

Anche piccole quantità di umidità o di scorie possono dar luogo ad una notevole riduzione della decomposizione autoaccelerata.

10.5. Incompatible materials

SODIUM PERSULFATE

acido e basi forti, sali di metalli pesanti, sostanze riducenti

DISODIUM METASILICATE

The aqueous solution is incompatible with: acids, organic anhydrides, acrilates, alcohols, aldehydes, alkyl oxides, cresoles, caprolactam, epichlorohydrin, ethylene dichloride, glycols, isocyanates, ketones, nitrates, phenoles, vinyl acetate.

10.6. Hazardous decomposition products

SODIUM PERSULFATE

May develop: sulphur oxides, oxygen.

In caso d'incendio e di decomposizione possono prodursi gas e vapori irritanti

SECTION 11. Toxicological information



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In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	1427,41 mg/kg
ATE (Dermal) of the mixture:	Not classified (no significant component)

DIPOTASSIUM PEROXODISULPHATE

LD50 (Dermal):	> 10000 mg/kg (coniglio)
LD50 (Oral):	1130 mg/kg (ratto)
LC50 (Inhalation mists/powders):	> 42,9 mg/l (ratto)

SODIUM PERSULFATE

LD50 (Dermal):	> 2000 mg/kg Coniglio
LD50 (Oral):	895 mg/kg Rat
LC50 (Inhalation mists/powders):	5,1 mg/l/4h Rat

SODIUM SILICATE

LD50 (Dermal):	> 5000 mg/kg (rat)
LD50 (Oral):	3400 mg/ kg (rat)
LC50 (Inhalation mists/powders):	> 2,06 g/m3 (rat)

AMMONIUM PEROXYDISULPHATE

LD50 (Dermal):	> 2000 mg/kg Rat
LD50 (Oral):	272 mg/kg Rat
ATE (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
LC50 (Inhalation mists/powders):	> 5,1 mg/l/4h Rat

DISODIUM METASILICATE

LD50 (Dermal):	> 5000 mg/kg bw (Ratto)
LD50 (Oral):	1152 mg/kg bw (Ratto)
LC50 (Inhalation mists/powders):	> 2,06 g/m3 (Ratto)



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MINERAL OIL

LD50 (Dermal):

> 5000 mg/kg

LC50 (Inhalation mists/powders):

> 5000 mg/m3

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Sensitising for the respiratory system

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.



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12.1. Toxicity

MINERAL OIL

LC50 - for Fish	> 1000 mg/l/96h
EC50 - for Crustacea	100 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	100 mg/l/72h Pseudokirchneriella subcapitata

SODIUM PERSULFATE

LC50 - for Fish	163 mg/l/96h Oncorhynchus mykiss (Tota iridea)
EC50 - for Crustacea	133 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	116 mg/l/72h Metodo: OECD TG 201
EC10 for Algae / Aquatic Plants	36 mg/l/18h
Chronic NOEC for Algae / Aquatic Plants	< 171 mg/l Pseudokirchneriella subcapitata (alghe cloroficee)

SODIUM SILICATE

LC50 - for Fish	1108 mg/l/96h (Brachydanio rerio)
EC50 - for Crustacea	1700 mg/l/48h (Daphnia magna)

DIPOTASSIUM PEROXODISULPHATE

LC50 - for Fish	107,6 mg/l/96h Scophthalmus maximus
EC50 - for Crustacea	120 mg/l/48h (daphnia)
EC50 - for Algae / Aquatic Plants	320 mg/l/72h Phaeodactylum

DISODIUM METASILICATE

LC50 - for Fish	1108 mg/l/96h (Brachydanio rerio)
EC50 - for Crustacea	1700 mg/l/48h (Daphnia magna)
EC50 - for Algae / Aquatic Plants	207 mg/l/72h (Schenedesmus subspicatus)

AMMONIUM PEROXYDISULPHATE

LC50 - for Fish	107,6 mg/l/96h Scophthalmus maximus
EC50 - for Crustacea	120 mg/l/48h (Daphnia magna)
EC50 - for Algae / Aquatic Plants	320 mg/l/72h Phaeodactylum
EC10 for Algae / Aquatic Plants	36 mg/l/72h Pseudomonas putida

12.2. Persistence and degradability

MINERAL OIL

Entirely degradable

SODIUM PERSULFATE

Solubility in water	730 g/l
Degradability: information not available	

DIPOTASSIUM PEROXODISULPHATE



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Rapidly degradable
DISODIUM METASILICATE

Solubility in water 210000 mg/l

Degradability: information not available

AMMONIUM PEROXYDISULPHATE

Solubility in water > 10000 mg/l

Degradability: information not available

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information



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14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 1479

14.2. UN proper shipping name

ADR / RID: OXIDIZING SOLID, N.O.S. (DIPOTASSIUM PEROXODISULPHATE; SODIUM PERSULFATE)
IMDG: OXIDIZING SOLID, N.O.S. (DIPOTASSIUM PEROXODISULPHATE; SODIUM PERSULFATE)
IATA: OXIDIZING SOLID, N.O.S. (DIPOTASSIUM PEROXODISULPHATE; SODIUM PERSULFATE)

14.3. Transport hazard class(es)

ADR / RID: Class: 5.1 Label: 5.1

IMDG: Class: 5.1 Label: 5.1

IATA: Class: 5.1 Label: 5.1



14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: NO
IMDG: not marine pollutant
IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 50	Limited Quantities: 5 kg	Tunnel restriction code: (E)
	Special provision: 274		
IMDG:	EMS: F-A, S-Q	Limited Quantities: 5 kg	
		Maximum quantity: 100 kg	Packaging instructions: 563
IATA:	Cargo:	Maximum quantity: 25 kg	Packaging instructions: 559
	Passengers:		
	Special provision:	A3	

14.7. Maritime transport in bulk according to IMO instruments



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Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: P8

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Contained substance

Point	75	
Point	65	AMMONIUM PEROXYDISULPHATE REACH Reg.: 01-2119495973-19-0000

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage $\geq$ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.



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SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Ox. Sol. 3	Oxidising solid, category 3
Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1	Skin sensitization, category 1
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic



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- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
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 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
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 - IFA GESTIS website
 - ECHA website
 - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.