



Safety Data Sheet according to (EC) No 1907/2006 as amended

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Blond Booster Brilliance

SDS No. : 83191
V001.8

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

1.1. Product identifier

Blond Booster Brilliance

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

Intended use:

Bleaching

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Düsseldorf Germany

Henkelstr. 67

40191 Düsseldorf

Phone: +49 211-797-0

E-mail address of person responsible for Safety Data Sheet:

Henkel Consumer Brands, e-mail: Astrid.Kleen@henkel.com

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

Further information is available at Poison Control Centers.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP):

Oxidizing solids	Category 3
May intensify fire; oxidizer.	
Acute toxicity	Category 4
Harmful if swallowed.	
Skin irritation	Category 2
Causes skin irritation.	
Serious eye damage	Category 1
Causes serious eye damage.	
Respiratory sensitizer	Category 1
May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Skin sensitizer	Category 1
May cause an allergic skin reaction.	
Specific target organ toxicity - single exposure	Category 3
May cause respiratory irritation.	

2.2. Label elements (CLP)

Hazard pictogram:



Signal word:	Danger
Hazard statement:	H272 May intensify fire; oxidizer. H302 Harmful if swallowed. 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 statement: Prevention	P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P220 Keep away from clothing and other combustible materials. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement: Response	P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. 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 or doctor. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor. P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

SECTION 3: Composition/information on ingredients

3.1. Substances

3.2. Mixtures

Hazardous substances according to CLP (EC) No 1272/2008:

Hazardous substances CAS-No.	EINECS	REACH-Reg No.	Content	Classification
dipotassium peroxodisulphate 7727-21-1	231-781-8	01-2119495676-19	>= 30- < 50 %	H334 Respiratory sensitizer 1 H315 Skin irritation 2 H335 Specific target organ toxicity - single exposure 3 H272 Oxidizing solids 3 H319 Serious eye irritation 2 H302 Acute toxicity 4; Oral H317 Skin sensitizer 1
Na-silicate 1344-09-8	215-687-4	01-2119448725-31	>= 20- < 30 %	H315 Skin irritation 2; Dermal H318 Serious eye damage 1 H335 Specific target organ toxicity - single exposure 3; Inhalation
disodium peroxodisulphate 7775-27-1	231-892-1	01-2119495975-15	>= 10- < 20 %	H272 Oxidizing solids 3 H302 Acute toxicity 4; Oral H315 Skin irritation 2; Dermal H317 Skin sensitizer 1 H319 Serious eye irritation 2 H334 Respiratory sensitizer 1; Inhalation H335 Specific target organ toxicity - single exposure 3; Inhalation
diammonium peroxodisulphate 7727-54-0	231-786-5	01-2119495973-19	>= 10- < 20 %	H315 Skin irritation 2 H335 Specific target organ toxicity - single exposure 3 H319 Serious eye irritation 2 H302 Acute toxicity 4; Oral H272 Oxidizing solids 3 H317 Skin sensitizer 1 H334 Respiratory sensitizer 1

For full text of the H - Phrases indicated by codes only see Section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Remove casualty immediately from danger zone. Take off immediately all contaminated clothing.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse immediately with plenty of running water (for 10 minutes). Remove all contaminated clothing and apply bandage.

Seek medical advice.

Eye contact:

Immediately flush eyes with water (for 10 minutes), put on a bandage with sterile gauze, see an oculist.

Ingestion:

Rinse the mouth. Drink plenty of water. Immediate medical advice necessary.

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

Suitable extinguishing media:

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

None known

5.2. Special hazards arising from the substance or mixture

The release of following substances is possible in case of fire:

Sulphur dioxide

Sulfur trioxide

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

Additional information:

The product intensifies fire

Remove product from danger zone.

Extend fire extinguishing measures to the surroundings.

Dispose of combustion residues and contaminated fire-fighting water in accordance with statutory regulations.

Collect contaminated fire fighting water separately. It must not enter drains.

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment.

Avoid contact with skin and eyes.

Depending on workplace dust concentration, wear dust filter mask with particle filter P1, P2 or P3.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove mechanically.

Avoid dust formation.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Handling advice:

Ensure good ventilation/suction at the workplace.

Avoid skin and eye contact.

Keep dust formation and -deposit to a minimum.

Avoid dust formation, vacuum.

Fire and explosion protection information:

Avoid the formation and build-up of dust - danger of dust explosion.

Keep away from combustible material.

Hygiene measures:

- Do not eat, drink or smoke while working.
- Immediately remove soiled or soaked clothing.
- Wash hands before work breaks and after finishing work.
- Keep away from food, beverages and animal feed.

7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container protected against moisture.
Store far from foodstuffs.

7.3. Specific end use(s)

Bleaching

SECTION 8: Exposure controls/personal protection

Only relevant for professional/industrial use

8.1. Control parameters

Valid for
Germany

None

8.2. Exposure controls

Engineering controls:

Ensure good ventilation/suction at the workplace.

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.
Dust mask, P2 particle filter.

Hand protection:

Protective gloves from natural India rubber are to be worn when handling the product. The product is a dry powder, a penetration of the intact glove is not expected even during longer periods of wearing. It is possible though that when wearing the gloves for several hours uncomfortable sensations can occur caused by body heat and humidity.

Eye protection:

Wear tight fitting goggles.

Skin protection:

Suitable protective clothing

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

The following data apply to the whole mixture:

Appearance	powder fine white
Odor	odourless
pH (20 °C (68 °F); Conc.: 1 % product; Solvent: Water)	10,2 - 10,7
Initial boiling point	Not applicable
Flash point	Not applicable
Decomposition temperature	Not applicable
Vapour pressure	Not applicable
Density	Not applicable
Bulk density	1.020 - 1.150 g/l
Viscosity	Not applicable

Viscosity (kinematic)	Not applicable
Explosive properties	Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Soluble
Solidification temperature	Not applicable
Melting point	Not applicable
Flammability	Not applicable
Auto-ignition temperature	Not applicable
Explosive limits	Not applicable
Partition coefficient: n-octanol/water	Not applicable
Evaporation rate	Not applicable
Vapor density	Not applicable
Oxidising properties	Not applicable
Container pressure	Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Accelerators.
 Contaminants (e.g. rust, dust, ash).
 Combustible materials.
 Reaction with heavy metals.
 Reaction with strong acids.
 Reaction with strong bases

10.2. Chemical stability

None known.

10.3. Possibility of hazardous reactions

See section reactivity
 None known.

10.4. Conditions to avoid

Keep away from sources of heat or ignition and protect from moisture.
 Small amounts of moisture and impurities can noticeably reduce the SADT.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

General toxicological information:

The present product is a chemical preparation within the meaning of the chemicals act. The following evaluation has been made on the basis of the toxicological data and content by weight of the individual ingredients.

11.1. Information on toxicological effects

Acute oral toxicity:

Harmful if swallowed.

Hazardous substances CAS-No.	Value type	Value	Species	Method
dipotassium peroxodisulphate 7727-21-1	LD50	700 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Na-silicate 1344-09-8	LD50	3.400 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
disodium peroxodisulphate 7775-27-1	LD50	930 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
diammonium peroxodisulphate 7727-54-0	LD50	700 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
dipotassium peroxodisulphate 7727-21-1	LD50	> 2.000 mg/kg	rat	EPA OPP 81-2 (Acute Dermal Toxicity)
Na-silicate 1344-09-8	LD50	> 5.000 mg/kg	rat	EPA OPPTS 870.1200 (Acute Dermal Toxicity)
disodium peroxodisulphate 7775-27-1	LD50	> 10.000 mg/kg	rabbit	not specified
diammonium peroxodisulphate 7727-54-0	LD50	> 2.000 mg/kg	rat	EPA OPP 81-2 (Acute Dermal Toxicity)

Acute inhalative toxicity:

Irritating to respiratory system

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
dipotassium peroxodisulphate 7727-21-1	LC50	> 5,1 mg/l	dust	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
disodium peroxodisulphate 7775-27-1	LC50	> 5,1 mg/l	dust	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
diammonium peroxodisulphate 7727-54-0	LC0	2,95 mg/l	dust/mist	4 h	rat	EPA OPP 81-3 (Acute inhalation toxicity)
diammonium peroxodisulphate 7727-54-0	Acute toxicity estimate (ATE)	5,1 mg/l	dust/mist			Expert judgement

Skin corrosion/irritation:

Primary skin irritation: irritating

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
dipotassium peroxodisulphate 7727-21-1	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Na-silicate 1344-09-8	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
disodium peroxodisulphate 7775-27-1	Category 2 (irritant)	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
diammonium peroxodisulphate 7727-54-0	Category 2 (irritant)	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Risk of serious damage to eyes

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
dipotassium peroxodisulphate 7727-21-1	irritating		rabbit	not specified
Na-silicate 1344-09-8	highly irritating		rabbit	In vitro
diammonium peroxodisulphate 7727-54-0	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

May cause sensitization by inhalation.
May cause sensitization by skin contact.

Hazardous substances CAS-No.	Result	Test type	Species	Method
dipotassium peroxodisulphate 7727-21-1	sensitising	Freund's complete adjuvant test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Na-silicate 1344-09-8	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
disodium peroxodisulphate 7775-27-1	sensitising	Freund's complete adjuvant test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
diammonium peroxodisulphate 7727-54-0	sensitising	Freund's complete adjuvant test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
dipotassium peroxodisulphate 7727-21-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
dipotassium peroxodisulphate 7727-21-1	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	not specified		EPA OPP 84-2 (Mutagenicity Testing)
Na-silicate 1344-09-8	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Na-silicate 1344-09-8	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Na-silicate 1344-09-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
disodium peroxodisulphate 7775-27-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
diammonium peroxodisulphate 7727-54-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
dipotassium peroxodisulphate 7727-21-1	negative	intraperitoneal		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Na-silicate 1344-09-8	negative	oral: feed		mouse	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
disodium peroxodisulphate 7775-27-1	negative	intraperitoneal		mouse	Micronucleus assay
diammonium peroxodisulphate 7727-54-0	negative	intraperitoneal		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
dipotassium peroxodisulphate 7727-21-1	not carcinogenic	dermal	52 w twice weekly	mouse	female	equivalent or similar OECD Guideline 451 (Carcinogenicity Studies)
diammonium peroxodisulphate 7727-54-0	not carcinogenic	dermal	52 w twice weekly	mouse	female	equivalent or similar OECD Guideline 451 (Carcinogenicity Studies)

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
dipotassium peroxodisulphate 7727-21-1	NOAEL P 250 mg/kg NOAEL F1 250 mg/kg	screening	oral: feed	rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)
Na-silicate 1344-09-8	NOAEL P > 159 mg/kg	multigeneration study	oral: drinking water	rat	not specified
diammonium peroxodisulphate 7727-54-0	NOAEL P >= 250 mg/kg NOAEL F1 >= 250 mg/kg	screening	oral: feed	rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

STOT-single exposure:

No data available.

STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
dipotassium peroxodisulphate 7727-21-1	NOAEL 91 mg/kg	oral: feed	90 d daily	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
dipotassium peroxodisulphate 7727-21-1	NOAEL 10.3 mg/m3	inhalation: dust	13 w 6 h/d, 5 d/w	rat	not specified
Na-silicate 1344-09-8	NOAEL 2.400 mg/kg	oral: feed	4 w daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
diammonium peroxodisulphate 7727-54-0	NOAEL 91 mg/kg	oral: feed	90 d	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
diammonium peroxodisulphate 7727-54-0	NOAEL 5 mg/m3	inhalation: dust	13 w 6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

Aspiration hazard:

No data available.

SECTION 12: Ecological information

General ecological information:

The ecological evaluation of the product is based on data from the raw material and/or comparable substances.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
dipotassium peroxodisulphate 7727-21-1	LC50	163 mg/l	96 h	Oncorhynchus mykiss	other guideline:
Na-silicate 1344-09-8	LC50	3.185 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
disodium peroxodisulphate 7775-27-1	LC50	771 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
diammonium peroxodisulphate 7727-54-0	LC50	76,3 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
dipotassium peroxodisulphate 7727-21-1	EC50	120 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Na-silicate 1344-09-8	EC50	1.700 mg/l	48 h	Daphnia magna	not specified
disodium peroxodisulphate 7775-27-1	EC50	133 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
diammonium peroxodisulphate 7727-54-0	EC50	120 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
dipotassium peroxodisulphate 7727-21-1	EC10	25,9 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
diammonium peroxodisulphate 7727-54-0	EC10	25,9 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Na-silicate 1344-09-8	EC0	36 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Na-silicate 1344-09-8	EC50	213 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
disodium peroxodisulphate 7775-27-1	EC50	> 33 mg/l	96 h	Scenedesmus quadricauda	OECD Guideline 201 (Alga, Growth Inhibition Test)
disodium peroxodisulphate 7775-27-1	EC10	33 mg/l	96 h	Scenedesmus quadricauda	OECD Guideline 201 (Alga, Growth Inhibition Test)
diammonium peroxodisulphate 7727-54-0	EC50	> 33 mg/l	96 h	Scenedesmus quadricauda	OECD Guideline 201 (Alga, Growth Inhibition Test)
diammonium peroxodisulphate 7727-54-0	EC10	33 mg/l	96 h	Scenedesmus quadricauda	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
dipotassium peroxodisulphate 7727-21-1	EC10	36 mg/l	18 h	Pseudomonas putida	other guideline:
Na-silicate 1344-09-8	EC0	3.554 mg/l	30 min		not specified
disodium peroxodisulphate 7775-27-1	EC 50	116 mg/l			OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
diammonium peroxodisulphate 7727-54-0	EC10	36 mg/l	18 h	Pseudomonas putida	other guideline:

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
dipotassium peroxodisulphate 7727-21-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Na-silicate 1344-09-8	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
disodium peroxodisulphate 7775-27-1	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
diammonium peroxodisulphate 7727-54-0	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.

12.6. Other adverse effects

No data available.

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

Product disposal:

Consider national regulations.

Special waste incineration or special disposal with the approval of the responsible local authority.

SECTION 14: Transport information**14.1. UN number or ID number**

ADR	3215
RID	3215
ADN	3215
IMDG	3215
IATA	3215

14.2. UN proper shipping name

ADR	PERSULPHATES, INORGANIC, N.O.S.
RID	PERSULPHATES, INORGANIC, N.O.S.
ADN	PERSULPHATES, INORGANIC, N.O.S.
IMDG	PERSULPHATES, INORGANIC, N.O.S.
IATA	Persulphates, inorganic, n.o.s.

14.3. Transport hazard class(es)

ADR	5.1
RID	5.1
ADN	5.1
IMDG	5.1
IATA	5.1

14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable
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	Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	IMDG-Code: Segregation group 2 - Ammonium compounds
IATA	not applicable

Protect from moisture

Must be protected from direct sunshine and stored in a cool and well ventilated place, away from all sources of heat.

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

National regulations/information (Germany):

WGK:	WGK 1: slightly hazardous to water (Germany. Ordinance on Facilities Handling Substances that are Hazardous to Water, ((AwSV of 21 April 2017), UBA, BAnz AT), as amended) Classification in conformity with the calculation method
Storage class according to TRGS 510:	5.1B

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H272 May intensify fire; oxidizer.
H302 Harmful if swallowed.
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.

Further information:

This information is not related to the use of the product, it is based on our current level of knowledge.