Super Block SF 50ml

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

1.1. Product identifier

Trade name/designation:

Super Block SF 50ml

Article No.:
T541004

UFI:
HRWT-E8FA-FYQJ-PAJ0

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

Use of the substance/mixture:
Adhesive

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH
Hartleitnerstraße 3
4653 Eberstalzell
Austria
Telephone: +43 (0) 7241 213 79
E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	
STOT-single exposure *(STOT SE 3)*	H335: May cause respiratory irritation.	
Hazardous to the aquatic environment *(Aquatic Chronic 3)*	H412: Harmful to aquatic life with long lasting effects.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS05
Corrosion



GHS07
Exclamation mark

Signal word: Danger

Hazard components for labelling:
Hydroxypropyl methacrylate (mixture of isomers); acrylic acid; [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Hazard statements for health hazards	
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

Hazard statements for environmental hazards	
H412	Harmful to aquatic life with long lasting effects.

Supplemental hazard information: none

Precautionary statements Prevention	
P261	Avoid breathing vapours.
P280	Wear protective gloves/eye protection.

Precautionary statements Response	
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.

2.3. Other hazards

Other adverse effects:
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:
Adhesive

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 27813-02-1 EC No.: 248-666-3 Index No.: 607-125-00-5	**Hydroxypropyl methacrylate (mixture of isomers)** Eye Irrit. 2 (H319), Skin Sens. 1 (H317)  Warning	> 15 – ≤ 30 Vol-%
CAS No.: 79-10-7 EC No.: 201-177-9 Index No.: 607-061-00-8	**acrylic acid** Acute Tox. 4 (H302, H312, H332), Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411), Eye Dam. 1 (H318), Flam. Liq. 3 (H226), Skin Corr. 1A (H314)  Danger **Specific concentration limit (SCL)** STOT SE 3; H335: C ≥ 1% **Acute Toxicity Estimate** ATE (oral) 500 mg/kg ATE (dermal) 1,100 mg/kg ATE (inhalation, vapour) 11 mg/L ATE (inhalation, dust/mist) 1.5 mg/L	≥ 3 – < 5 Vol-%

Super Block SF 50ml

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 80-15-9 EC No.: 201-254-7 Index No.: 617-002-00-8	**α,α-Dimethylbenzylhydroperoxid** Acute Tox. 3 (H331), Acute Tox. 4 (H302, H312), Aquatic Chronic 2 (H411), Org. Perox. E (H242), STOT RE 2 (H373), STOT SE 3 (H335), Skin Corr. 1B (H314)  Danger **Specific concentration limit (SCL)** Skin Corr. 1B; H314: C ≥ 10% Skin Irrit. 2; H315: 3% ≤ C < 10% Eye Dam. 1; H318: C ≥ 3% Eye Irrit. 2; H319: 1% ≤ C < 3% STOT SE 3; H335: 0% ≤ C < 10% **Acute Toxicity Estimate** ATE (oral) 382 mg/kg ATE (dermal) 500 mg/kg ATE (inhalation, vapour) 1.37 mg/L	1 – < 2.5 Vol-%
CAS No.: 2530-83-8 EC No.: 219-784-2 REACH No.: 01-2119513212-58	**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane** Aquatic Chronic 3 (H412), Eye Dam. 1 (H318)  Danger **Acute Toxicity Estimate** ATE (oral) 8,025 mg/kg ATE (dermal) 4,250 mg/kg	1 – < 2.5 Vol-%
CAS No.: 114-83-0 EC No.: 204-055-3	**2-Phenylacetohydrazide** Acute Tox. 3 (H301)  Danger **Acute Toxicity Estimate** ATE (oral) 270 mg/kg	≤ 1 Vol-%
CAS No.: 123-31-9 EC No.: 204-617-8 Index No.: 604-005-00-4	**hydroquinone** Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Carc. 2 (H351), Eye Dam. 1 (H318), Muta. 2 (H341), Skin Sens. 1 (H317)  Danger M-factor (acute): 10 **Acute Toxicity Estimate** ATE (oral) 375 mg/kg ATE (dermal) > 2,000 mg/kg	< 0.025 Vol-%

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
Immediately remove any contaminated clothing, shoes or stockings.

Following inhalation:
Get plenty of fresh air and consult a doctor to be on the safe side.
If unconscious, position and transport in stable lateral position.

In case of skin contact:
After contact with skin, wash immediately with plenty of water and soap.
Consult a doctor if skin irritation persists.

After eye contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion:
Rinse out mouth immediately and drink plenty of water.
Do NOT induce vomiting. Seek medical advice immediately and show this container or label.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Adapt fire extinguishing measures to the surroundings.

5.2. Special hazards arising from the substance or mixture

Formation of toxic gases when heated or in case of fire.

5.3. Advice for firefighters

Special protective equipment for firefighters:
Wear self-contained breathing apparatus.
Do not inhale explosion and combustion gases.

5.4. Additional information

Cool endangered containers with water spray. Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Wear protective equipment. Keep unprotected persons away.
Provide adequate ventilation.
Use respiratory protection when exposed to vapours/dust/aerosol.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

In case of spillage into water or sewage system, inform the competent authorities.
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information:

Provide adequate ventilation. Dispose of the ingested material in accordance with the regulations.

6.4. Reference to other sections

See section 7 for further information on safe handling.
For further information on personal protective equipment: see section 8.
For further information on disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Ensure good ventilation/extraction at the workplace.
Ensure good room ventilation also in the floor area (vapours are heavier than air).

Fire prevent measures:

No special measures required if handled and stored properly.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep/Store only in original container.

Hints on storage assembly:
Not required.
Storage class (TRGS 510, Germany): 10 - 13 – Other combustible and non-combustible substances
Further information on storage conditions:
Store in a cool, dry place in well-sealed containers. Protect from heat and direct sunlight. Store in a well-ventilated place.

7.3. Specific end use(s)

Recommendation:
No further relevant information available.

SECTION 8: Exposure controls/personal protection

*

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IOELV (EU) from 13 Jul 2023	**acrylic acid** CAS No.: 79-10-7 EC No.: 201-177-9	① 10 ppm (29 mg/m³) ② 20 ppm (59 mg/m³) ⑤ (Short-term exposure limit value in relation to a reference period of 1 minute.)
MAK (AT) from 25 Sept 2018	**acrylic acid** CAS No.: 79-10-7 EC No.: 201-177-9	① 10 ppm (29 mg/m³) ② 20 ppm (59 mg/m³) ⑤ (Momentanwert)
MAK (AT)	**hydroquinone** CAS No.: 123-31-9 EC No.: 204-617-8	① 2 mg/m³ ⑤ (einatembare Fraktion) III B, S
MAK (AT)	**hydroquinone** CAS No.: 123-31-9 EC No.: 204-617-8	② 4 mg/m³ ⑤ (einatembare Fraktion max. 8x5 min./Schicht, Momentanwert) III B, S

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Hydroxypropyl methacrylate (mixture of isomers) CAS No.: 27813-02-1 EC No.: 248-666-3	4.2 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane CAS No.: 2530-83-8 EC No.: 219-784-2	147 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane CAS No.: 2530-83-8 EC No.: 219-784-2	147 mg/m³	① DNEL worker ② Acute - inhalation, systemic effects
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane CAS No.: 2530-83-8 EC No.: 219-784-2	21 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

Super Block SF 50ml

Substance name	DNEL value	① DNEL type ② Exposure route
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane CAS No.: 2530-83-8 EC No.: 219-784-2	21 mg/kg bw/day	① DNEL worker ② Acute – dermal, systemic effects
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	1.74 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	7 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	0.5 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	1 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	128 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	64 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
Hydroxypropyl methacrylate (mixture of isomers) CAS No.: 27813-02-1 EC No.: 248-666-3	0.904 mg/L	① PNEC aquatic, freshwater
Hydroxypropyl methacrylate (mixture of isomers) CAS No.: 27813-02-1 EC No.: 248-666-3	0.904 mg/L	① PNEC aquatic, marine water
Hydroxypropyl methacrylate (mixture of isomers) CAS No.: 27813-02-1 EC No.: 248-666-3	10 mg/L	① PNEC sewage treatment plant
Hydroxypropyl methacrylate (mixture of isomers) CAS No.: 27813-02-1 EC No.: 248-666-3	6.28 mg/kg	① PNEC sediment, freshwater
Hydroxypropyl methacrylate (mixture of isomers) CAS No.: 27813-02-1 EC No.: 248-666-3	6.28 mg/kg	① PNEC sediment, marine water
Hydroxypropyl methacrylate (mixture of isomers) CAS No.: 27813-02-1 EC No.: 248-666-3	0.727 mg/kg	① PNEC soil
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane CAS No.: 2530-83-8 EC No.: 219-784-2	1 mg/L	① PNEC aquatic, freshwater
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane CAS No.: 2530-83-8 EC No.: 219-784-2	0.1 mg/L	① PNEC aquatic, marine water
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	0.114 mg/L	① PNEC aquatic, freshwater

Substance name	PNEC Value	① PNEC type
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	0.0114 mg/L	① PNEC aquatic, marine water
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	0.71 mg/L	① PNEC sewage treatment plant
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	0.00098 mg/kg	① PNEC sediment, freshwater
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	0.000097 mg/kg	① PNEC sediment, marine water
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	0.000129 mg/kg	① PNEC soil

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No further details. See section 7.

8.2.2. Personal protection equipment

Eye/face protection:

Safety goggles with side shields (EN 166).

Skin protection:

Hand protection:
Wear protective gloves. (EN 374)
Check protective gloves for proper condition before each use.
The glove material must be impermeable and resistant to the product / substance / preparation.
Selection of the glove material considering the breakthrough times, permeation rates and degradation.
Glove material:
Breakthrough time: 480 min.
Nitril I, Nr. 0730, 0732, 0733, 0736, 0737, 0738, 0739 oder 0836
Viton, Nr. 0890
Butyl II, Nr. 0897
Butyl, Nr. 0898

Breakthrough time: 240 min.
Naturlatex I , Nr. 0395 oder 0403
Chloropren Nitril II, Nr. 0717
Chloropren, Nr. 0720, 0722, 0723, 0725 oder 0726
Nitril VI, Nr. 0754

This recommendation is based exclusively on chemical compatibility and testing according to EN 374 under laboratory conditions. Depending on the application, different requirements may arise. Therefore, the recommendations of the protective glove supplier must also be taken into account. The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use. The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Filter A/P2

Other protection measures:

General protective and hygienic measures:
The usual precautions when handling chemicals must be observed.
Keep away from food, drink and animal feed.
Remove contaminated, saturated clothing immediately.
Wash hands before breaks and after work.
Do not inhale gases/vapours/aerosols.

Avoid contact with eyes and skin.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

No further relevant information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Colour: green
Odour: characteristic
flammability: No data available
Odour threshold: not determined

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	4 – 5	20 °C	
Melting point	*No data available*		
Freezing point	*No data available*		
Initial boiling point and boiling range	*No data available*		
Flash point	> 100 °C		
Evaporation rate	*No data available*		
Auto-ignition temperature	*No data available*		
Upper/lower flammability or explosive limits	*No data available*		
Vapour pressure	*No data available*		
Vapour density	*No data available*		
Density	1.1 g/cm³	20 °C	
Bulk density	*not applicable*		
Water solubility	Immiscible		
Dynamic viscosity	2,000 mPa* s	20 °C	
Kinematic viscosity	*No data available*		

*

9.2. Other information

The product is not self-igniting. The product is not explosive.

9.2.1. Information with regard to physical hazard classes

Explosives:
Not applicable

Flammable gases:
Not applicable

Aerosols:
Not applicable

Oxidizing gases:
Not applicable

Gases under pressure:
Not applicable

Flammable liquids:
Not applicable

Flammable solids:
Not applicable

Self-reactive substances and mixtures:
Not applicable

Pyrophoric liquids:
Not applicable

Pyrophoric solids:
Not applicable

Self-heating substances and mixtures:
Not applicable

Substances or mixtures which, in contact with water, emit flammable gases:
Not applicable

Oxidizing liquids:
Not applicable

Oxidizing solids:
Not applicable

Organic peroxides:
Not applicable

Corrosive to metals:
Not applicable

Desensitised explosives:
Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity
No further relevant information available.

10.2. Chemical stability
Thermal decomposition/Conditions to avoid: The product is stable under storage at normal ambient temperatures.
Protect from heat and direct sunlight.

10.3. Possibility of hazardous reactions
Reactions with metal salts.

10.4. Conditions to avoid
No further relevant information available.

10.5. Incompatible materials
No further relevant information available.

10.6. Hazardous decomposition products
No known hazardous decomposition products.

SECTION 11: Toxicological information

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

α,α-Dimethylbenzylhydroperoxid CAS No.: 80-15-9 EC No.: 201-254-7
LD_{50} oral: 382 mg/kg (Rat)
LD_{50} dermal: 500 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (vapour): 1.37 mg/L 4 h (Rat)
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane CAS No.: 2530-83-8 EC No.: 219-784-2
LD_{50} oral: 8,025 mg/kg (Rat) OECD TG 401
LD_{50} dermal: 4,250 mg/kg (Rabbit) OECD TG 402
2-Phenylacetohydrazide CAS No.: 114-83-0 EC No.: 204-055-3
LD_{50} oral: 270 mg/kg (Rat)
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8
LD_{50} oral: 375 mg/kg (Rat) OECD 401
LD_{50} dermal: >2,000 mg/kg (Rabbit) OECD 402

Acute oral toxicity:
Based on available data, the classification criteria are not met.

Acute dermal toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Causes skin irritation.

Serious eye damage/irritation:
Causes serious eye damage.

Respiratory or skin sensitisation:
May cause an allergic skin reaction.

Germ cell mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity:
Based on available data, the classification criteria are not met.

STOT-single exposure:
May cause respiratory irritation.

STOT-repeated exposure:
Based on available data, the classification criteria are not met.

Aspiration hazard:
Based on available data, the classification criteria are not met.

Additional information:
The product is a preparation for which no experimentally determined toxicity data are available.

11.2. Information on other hazards

Endocrine disrupting properties:
None of the ingredients are included.

SECTION 12: Ecological information

12.1. Toxicity

hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8
LC_{50}: 0.638 mg/L 4 d (fish, Oncorhynchus mykiss) OECD 203
EC_{50}: 0.061 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}: 0.335 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201
EC_{50}: 0.162 – 0.29 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
NOEC: 0.0057 mg/L 21 d (crustaceans, Daphnia magna) OECD 211

Aquatic toxicity:
No further relevant information available.

Assessment/classification:
No further relevant information available.

12.2. Persistence and degradability

hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8
Biodegradation: Yes, rapidly

Additional information:
No further relevant information available.

12.3. Bioaccumulative potential

hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8
Bioconcentration factor (BCF): 40

Accumulation / Evaluation:
No further relevant information available.

12.4. Mobility in soil
No further relevant information available.

12.5. Results of PBT and vPvB assessment

Hydroxypropyl methacrylate (mixture of isomers) CAS No.: 27813-02-1 EC No.: 248-666-3
Results of PBT and vPvB assessment: —
α,α-Dimethylbenzylhydroperoxid CAS No.: 80-15-9 EC No.: 201-254-7
Results of PBT and vPvB assessment: —
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane CAS No.: 2530-83-8 EC No.: 219-784-2
Results of PBT and vPvB assessment: —
2-Phenylacetohydrazide CAS No.: 114-83-0 EC No.: 204-055-3
Results of PBT and vPvB assessment: —
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8
Results of PBT and vPvB assessment: —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties
The product does not contain any substances with endocrine-disrupting properties.

12.7. Other adverse effects
Drinking water hazard even when small quantities leak into the subsoil.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV
Waste code product

08 04 09 *	Waste adhesives and sealants containing organic solvents or other dangerous substances

**: Evidence for disposal must be provided.*

Waste treatment options
Appropriate disposal / Package:
Uncleaned packaging: Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments
not applicable

SECTION 15: Regulatory information

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

15.1.1. EU legislation
Restrictions on use:
Regulation (EC) No 1907/2006 ANNEX XVII: Restriction conditions: 3
Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: None of the ingredients are included.
Regulation (EU) 2019/1148
Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVES (upper concentration limit for a permit pursuant to Article 5(3)): None of the ingredients are included.
Annex II - EXPLOSIVES REPORTABLE FOR EXPLOSIVES: None of the ingredients are included.
Regulation (EC) No 273/2004 on drug precursors: None of the ingredients are included.
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: None of the ingredients are included.

15.1.2. National regulations
No data available

15.2. Chemical Safety Assessment
A chemical safety assessment has not been carried out.

SECTION 16: Other information

*
16.1. Indication of changes

8.1.	Control parameters
9.2.	Other information
16.1.	Indication of changes
16.2.	Abbreviations and acronyms

*
16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation

KG	body weight
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
ZNS	central nervous system

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	
STOT-single exposure *(STOT SE 3)*	H335: May cause respiratory irritation.	
Hazardous to the aquatic environment *(Aquatic Chronic 3)*	H412: Harmful to aquatic life with long lasting effects.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice
No data available

16.7. Additional information
To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.