Fast Fix Gel 20g

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

* **1.1. Product identifier**

Trade name/designation:

Fast Fix Gel 20g

Article No.:
T501205

UFI:
ESN5-WU0F-0K32-3VJX

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

Use of the substance/mixture:
Adhesives and sealants

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.	Calculation method.
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	Calculation method.
STOT-single exposure *(STOT SE 3)*	H335: May cause respiratory irritation.	Calculation method.

* **2.2. Label elements**

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

Hazard pictograms:



GHS07
Exclamation mark

Signal word: Warning

Hazard components for labelling:
ethyl 2-cyanoacrylate

Hazard statements for health hazards	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Supplemental hazard information	
EUH202	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

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

Precautionary statements Response	
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P312	Call a POISON CENTER/doctor if you feel unwell.

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

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.: 7085-85-0 EC No.: 230-391-5 Index No.: 607-236-00-9 REACH No.: 01-2119527766-29	**ethyl 2-cyanoacrylate** Eye Irrit. 2 (H319), STOT SE 3 (H335), Skin Irrit. 2 (H315)  Warning **Specific concentration limit (SCL)** STOT SE 3; H335: C ≥ 10% **Acute Toxicity Estimate** ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg	50 – < 100 %
CAS No.: 123-31-9 EC No.: 204-617-8 Index No.: 604-005-00-4 REACH No.: 01-2119524016-51	**hydroquinone** Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Carc. 2 (H351), Eye Dam. 1 (H318), Muta. 2 (H341), Skin Sens. 1 (H317)  Danger M-factor (acute): 10 M-factor (chronic): 1 **Acute Toxicity Estimate** ATE (oral) 375 mg/kg ATE (dermal) > 2,000 mg/kg	< 0.1 %

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

SECTION 4: First aid measures

*
4.1. Description of first aid measures

General information:
Take off contaminated clothing. Consult a doctor if necessary. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious but breathing normally, place in recovery position and seek medical advice.

Following inhalation:
Fresh air supply, respiratory care if necessary, warmth. Consult a doctor if symptoms persist. In case of irregular breathing or respiratory arrest, initiate artificial respiration.

In case of skin contact:
Damage can be caused through mechanical influence of the product (eg. sticking). Do not pull apart any areas of skin that have stuck together. These can be carefully separated using a blunt object after soaking in warm soapy water. Cyanoacrylates give off heat as they cure. In rare cases, a large amount of the product may generate enough heat to cause burns. Once the adhesive has been removed from the skin, the burns should be treated as normal burns. If the lips are accidentally stuck together, apply warm water to the lips, ensuring maximum wetting with saliva and pressure from inside the mouth. Peel or roll the lips until they come apart. Do not attempt to pull the lips apart with opposing movements.

After eye contact:
If the eye is stuck shut so that it cannot be opened, loosen the eyelashes by applying a damp cotton wool pad soaked in warm water. Cyanoacrylate hardens on the proteins in the eye, which triggers tear production. This helps to dissolve the adhesive. Keep the eye covered until the adhesive has completely dissolved, which usually takes 1 to 3 days. Do not force the eye open. Seek medical attention if solid particles of cyanoacrylate are trapped under the eyelid and are causing injury through friction.

Following ingestion:
Ensure that the airways are clear. The product hardens immediately in the mouth, making it almost impossible to swallow. Saliva gradually breaks down the hardened product in the mouth (over several hours).

* 4.2. Most important symptoms and effects, both acute and delayed
Irritation to respiratory tract, Cough, Dyspnoea, Causes eye irritation. Conjunctival redness. Causes skin irritation.

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

SECTION 5: Firefighting measures

* 5.1. Extinguishing media
Suitable extinguishing media:
Carbon dioxide (CO2), Extinguishing powder, Water mist, alcohol resistant foam
Fight larger fires with water spray or alcohol-resistant foam.

Unsuitable extinguishing media:
Water in full jet

* 5.2. Special hazards arising from the substance or mixture
Toxic vapours can be released. Formation of toxic gases when heated or in case of fire. Use appropriate respiratory protection.

Hazardous combustion products:
Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)
Risk of formation of toxic pyrolysis products.
Under certain fire conditions, traces of other toxic substances cannot be excluded.

* 5.3. Advice for firefighters
Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Wear a self-contained breathing apparatus and chemical protective clothing.

* 5.4. Additional information
Cool endangered containers with water spray. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. 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:

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Use respiratory protection when exposed to vapours/dust/aerosol.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

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

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). Wash with plenty of water. Treat the recovered material as prescribed in the section on waste disposal.

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). Avoid contact with skin, eyes and clothes.

Fire prevent measures:

Keep away from sources of ignition - No smoking.

Advices on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

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

Requirements for storage rooms and vessels:

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep/Store only in original container.

Hints on storage assembly:

Not required.

Storage class (TRGS 510, Germany): 10 – Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Store in a cool, dry place in well-sealed containers. Protect from heat and direct sunlight.

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

Recommendation:

Adhesives and sealants

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
MAK (AT)	**ethyl 2-cyanoacrylate** CAS No.: 7085-85-0 EC No.: 230-391-5	① 2 ppm (9 mg/m³)
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
ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5	9.25 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5	9.25 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5	9.25 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5	9.25 mg/m³	① DNEL Consumer ② Long-term – inhalation, local 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

Substance name	DNEL value	① DNEL type ② Exposure route
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
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	0.114 mg/L	① PNEC aquatic, freshwater
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
Provide adequate ventilation. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

8.2.2. Personal protection equipment


Eye/face protection:
Wear eye protection/face protection.

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.
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.
Glove material: NBR (Nitrile rubber), Thickness of the glove material: > 0,4 mm, Permeation time (maximum wear duration): >480 min.

Body protection:
Wear suitable protective clothing when working. Impermeable clothing. The type of protective equipment depends on the concentration and quantity of hazardous substances in the workplace concerned.

Respiratory protection:
In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

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

SECTION 9: Physical and chemical properties

* **9.1. Information on basic physical and chemical properties**

Appearance

Physical state: Liquid
Colour: light yellow
flammability: No data available

Form: Liquid
Odour: characteristic
Odour threshold: not determined

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	*No data available*		
Melting point	*No data available*		
Freezing point	*No data available*		
Initial boiling point and boiling range	> 200 °C		
Flash point	80 °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		
Bulk density	*not applicable*		
Water solubility	*No data available*		
Dynamic viscosity	150,000 – 200,000 mPa* s	25 °C	
Kinematic viscosity	*No data available*		

9.2. Other information

The product is not explosive.

SECTION 10: Stability and reactivity

* **10.1. Reactivity**

Exothermic reaction with: Water, Amines, Alkali (lye), Alcohol

* **10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

* **10.3. Possibility of hazardous reactions**

No information available.

* **10.4. Conditions to avoid**

The product is chemically stable under recommended conditions of storage, use and temperature.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No further relevant information available.

SECTION 11: Toxicological information

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

Toxicological information

Acute Toxicity Estimate for Mixtures
ATE (oral): >2,000 mg/kg
ATE (dermal): >2,000 mg/kg
ATE (inhalation, vapour): >20 mg/L
ATE (inhalation, dust/mist): >5 mg/L
ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5
LD_{50} oral: >5,000 mg/kg (Rat) OECD 401
LD_{50} dermal: >2,000 mg/kg (Rabbit) OECD 402
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 irritation.

Respiratory or skin sensitisation:
Based on available data, the classification criteria are not met.

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. ethyl 2-cyanoacrylate

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:
May be harmful if swallowed, in contact with skin or if inhaled.

* **11.2. Information on other hazards**

Endocrine disrupting properties:
The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

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
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
NOEC: 0.006 mg/L 21 d (crustaceans, Daphnia magna) OECD 211
NOEC: ≥0.1 mg/L (fish, Pimephales promelas) OECD 210
ErC_{50}: 0.33 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata) OECD 201

Aquatic toxicity:
No further relevant information available.

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5
Log K_{OW}: 0.776
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8
Log K_{OW}: 0.59
Bioconcentration factor (BCF): 40

12.4. Mobility in soil
No data available

12.5. Results of PBT and vPvB assessment

ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5
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
This product does not contain any substance that exhibits endocrine disrupting properties towards non-target organisms, as no ingredient fulfills the criteria.

* **12.7. Other adverse effects**
water hazard class 1: slightly hazardous to water
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**
Do not allow to enter drains/surface water/ground water. Do not allow to enter into soil/subsoil. 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 code packaging

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:

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

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.	UN 3334
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.	AVIATION REGULATED LIQUID, N.O.S.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	 9
14.4. Packing group			
not relevant	not relevant	not relevant	III
14.5. Environmental hazards			
not relevant	not relevant	not relevant	No
14.6. Special precautions for user			
not relevant	not relevant	not relevant	**Special Provisions:** A27 **Limited quantity (LQ):** Y964 30 kg G **Excepted Quantities (EQ):** E1 **Remark:** IATA Packing Instructions - Passenger: 964 IATA Maximum Quantity - Passenger: 450 L IATA-Verpackungsanweisung - Cargo: 964 IATA Maximum Quantity - Cargo: 450 L

*

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:

Restrictions on use (REACH, Annex XVII) entry 3, entry 75
Not subject to the SEVESO III Directive.

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**

1.1.	Product identifier
1.2.	Relevant identified uses of the substance or mixture and uses advised against
2.1.	Classification of the substance or mixture
2.2.	Label elements
3.2.	Mixtures
4.1.	Description of first aid measures
4.2.	Most important symptoms and effects, both acute and delayed
4.3.	Indication of any immediate medical attention and special treatment needed
5.1.	Extinguishing media
5.2.	Special hazards arising from the substance or mixture
5.3.	Advice for firefighters
5.4.	Additional information
6.1.	Personal precautions, protective equipment and emergency procedures
7.1.	Precautions for safe handling
7.2.	Conditions for safe storage, including any incompatibilities
7.3.	Specific end use(s)
8.1.	Control parameters
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
10.1.	Reactivity
10.2.	Chemical stability
10.3.	Possibility of hazardous reactions
10.4.	Conditions to avoid
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.1.	Toxicity
12.7.	Other adverse effects
13.1.	Waste treatment methods
14.6.	Special precautions for user
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.2.	Abbreviations and acronyms
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
16.5.	List of relevant hazard statements and/or precautionary statements from sections 2 to 15

* **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
ATE	Acute Toxicity Estimate
AVV	Waste Shipment Ordinance (DE)
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
EAK	European Waste Catalogue
EC_{50}	Effective Concentration 50%
EG	European Community
EN	European Standard
ES	Exposure scenario
EU	European Union
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
Tox.	Toxicity
TRGS	Technische Regeln für Gefahrstoffe
UFI	Unique Formula Identifier
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.	Calculation method.
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	Calculation method.
STOT-single exposure *(STOT SE 3)*	H335: May cause respiratory irritation.	Calculation method.

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

Hazard statements	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

Hazard statements	
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic 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.