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Opgesteld door: DR	Bekrachtigd door: GL

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

1.1. Product identifier

Productname	Kelfort ® Spray Glue
Article numbere	1516448
Producttype	Glue Spray
According Regulation (EC)	1907/2006/EC, article 31
UFI	5920-00A7-4009-XFD4

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

Recommended use	l Glue	
recommended asc	O.GC	

1.3 Details of the supplier of the safety data sheet

Distributeur Ferney Group BV Postbus 24 1700 AA Heerhugowaard – The Netherlands T +31 (0)72-5765000 - F +31 (0)72-5765010 bedrijfsbureau@ferneygroup.nl - www.ferney.nl

1.4 Emergency telephone number

Noodtelefoon: +49(0)9366-907126 (ma-do 7.15-18.00 hour) or

: +31(0)30-2748888 (after worktime, exclusive use for doctors, pharmacists and government

institutions)

Country	Organisation/	Address	Emergency number	Comments
	Company			
The Netherlands	National Poisons Information Center	House post number B.00.118 PO Box 85500 3508 GA Utrecht	+31 30 274 88 88	For the sole purpose of informing healthcare professionals in the event of acute poisoning

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS09 environment



Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

H304 Asp. Tox. 1 May be fatal if swallowed and enters airways.

2.2 Label elements

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms







GHS02

GHS07

- Signal word Danger
- · Hazard-determining components of labelling:

Naphtha (petroleum), hydrotreated light butanone

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Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

P312 Call a POISON CENTER/doctor if you feel unwell.

P403 Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

78-93-3 butanone List II

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

- · 3.2 Mixtures
- · Description: Active substance with propellant

· Dangerous components:		
CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	25-<50%
CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37	dimethyl ether Flam. Gas 1A, H220; Press. Gas (Liq.), H280	10-<25%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane (containing < 0.1% butadiene (203-450-8), Note K) Flam. Gas 1A, H220; Press. Gas (Comp.), H280	2.5-<10%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	2.5-<10%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	2.5-<10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	isobutane (containing < 0,1 % butadiene (203-450-8), Note K) Flam. Gas 1A, H220; Press. Gas (Comp.), H280	0.1-<1%

· Additional information:

Aerosols and containers fitted with a solid atomizer containing substances or mixtures classified as hazardous by aspiration shall not be labelled for that hazard.

The text of the hazard statements mentioned here can be found in chapter 16.

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SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Do not induce vomiting; call for medical help immediately.
- · 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 agents:

Water haze

Fire-extinguishing powder

Carbon dioxide

Alcohol resistant foam

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment: Mount respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

- · 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.
- · 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

- Observe official regulations on storing packagings with pressurised containers.
 - · Information about storage in one common storage facility:

Observe official regulations on storing packagings with pressurised containers.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

· 8.1 Control parameters

	· 8.1 Control parameters		
· Ingre	lients with limit values that rec	quire monitoring at the workplace:	
115-10-6 dimethyl ether			
WEL	Short-term value: 958 mg/m ³ , 500 ppm		
	Long-term value: 766 mg/m ³ , 40		
	, ,	butadiene (203-450-8), Note K)	
	Short-term value: 1810 mg/m³, 7		
	Long-term value: 1450 mg/m ³ , 6 Carc (if more than 0.1% of buta-		
74-98	6 propane	1.5-diele)	
	Long-term value: 1800 mg/m³, 1	000 ppm	
OLL	Additioneel ingevuld the klant v		
78-93-	3 butanone		
	Short-term value: 899 mg/m ³ , 30	00 ppm	
	Long-term value: 600 mg/m³, 20	••	
	Sk, BMGV	•	
75-28-	5 isobutane (containing < 0,1 %	% butadiene (203-450-8), Note K)	
OEL	Long-term value: 2400 mg/m³, l		
	Additioneel ingevuld obv klant v	voor Hfdst 3 SDS	
· DNEI	s		
64742	-49-0 Naphtha (petroleum), hy	drotreated light	
Inhala	tive DNEL Aigu-systémique	1152 mg/m3 (Consumer)	
		1286.4 mg/m3 (Worker)	
	DNEL Acute-local	640 mg/m3 (Consumer)	
		1066.67 mg/m3 (Worker)	
	DNEL Long term-local	178.57 mg/m3 (Consumer)	
		837.5 mg/m3 (Worker)	
78-93-	3 butanone		
Oral	DNEL Long term-systemic	31 mg/kg bw/day (Consumer)	
Derma	~ .	412 mg/kg bw/day (Consumer)	
	,	1161 mg/kg bw/day (Worker)	
Inhala	tive DNEL Long term-systemic		
		600 mg/m3 (Worker)	
· Ingredients with biological limit values: 78-93-3 butanone			
	78-93-3 butanone BMGV 70 μmol/L		
DIVIG	Medium: urine		
	Sampling time: post shift		
	Parameter: butan-2-one		
_			

Additional information: The lists valid during the making were used as basis.

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8.2 Exposure controls

- 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

General ventilation

· Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A2/P2

· Hand protection

Wear gloves for the protection against chemicals according to EN 374



Protective gloves

Solvent resistant gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.5 mm

· Penetration time of glove material

For continuous contact we recommend gloves with breakthrough time of at least 240 minutes, with the preference given to a breakthrough time greater than 480 minutes. For short-term or splash guard we recommend the same. We are aware that suitable gloves that offer this level of protection may not be available. In that case, a shorter breakthrough time are acceptable as long as the procedures governing maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance of the gloves against a chemical substance, because this depends on the exact composition of the material from which the gloves are made.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection

Safety glasses



Tightly sealed goggles

· Body protection:

Use protective suit. (EN-13034/6)

Full skin covering antistatic, chemical and oil resistant clothing and safety shoes are recommended. (EN1149; EN340&EN ISO 13688; EN13034-6).

· Environmental exposure controls Use a suitable container to prevent environmental contamination.

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SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1 Information on basic physical and chemical properties

· General Information

Physical state

According to product specification · Colour:

Characteristic · Odour: · Odour threshold: Not determined. · Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and boiling

-44.5 °C range Flammability Not applicable.

· Lower and upper explosion limit

· Lower: 1.1 Vol % · Upper: 18.6 Vol % -97 °C · Flash point:

· Ignition Temperature >200 °C

Mixture is non-polar/aprotic. · Viscosity:

≤ 20,5 mm2/s, 40 °C (L) Kinematic viscosity

· Dynamic: Not determined

· Solubility

Not miscible or difficult to mix. · water:

· Partition coefficient n-octanol/water (log value) Not determined. Vapour pressure at 20 °C: 3000 hPa

 Density and/or relative density Density at 20 °C: 0.707 g/cm3 Relative density Not determined. · Vapour density Not determined.

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9.2 Other information

· Appearance:

Form: Aerosol

Important information on protection of health and environment, and on safety.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

· Solvent content:

Organic solvents: 83.2 %
Solids content: 16.8 %

· Change in condition

· Evaporation rate Not applicable.

· Information with regard to physical hazard classes

· Explosives Void · Flammable gases Void

• Aerosols Extremely flammable aerosol. Pressurised container:

May burst if heated.

Void Oxidising gases Void · Gases under pressure Void Flammable liquids Void Flammable solids Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void Self-heating substances and mixtures Void

Substances and mixtures, which emit flammable

gases in contact with water Void

Oxidising liquids Void
Oxidising solids Void
Organic peroxides Void
Corrosive to metals Void
Desensitised explosives Void

Rubriek 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 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 dangerous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

	· LD/LC50 values relevant for classification:		
64742-49-	64742-49-0 Naphtha (petroleum), hydrotreated light		
Oral	LD50	>5000 mg/kg (Rat)	
Dermal	LD50	>2000 mg/kg (Rabbit)	
Inhalative	LC50	>5610 mg/m3 (Rat)	
78-93-3 bi	78-93-3 butanone		
Oral	LD50	>2193 mg/kg (Rat)	
Dermal	LD50	>5000 mg/kg (Rabbit)	
		5000 mg/kg (Rabbit)	

- Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- 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 drowsiness or dizziness.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard May be fatal if swallowed and enters airways.
- · 11.2 Information on other hazards

· Endocrine disrupting properties		
78-93-3	butanone	List II

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SECTION 12: Ecological information

· 12.1 Toxicity

Aquatic toxicity:

78-93-3 butanone

LC50 (96h) 2993 mg/l (Pimephales promelas)

EC50 (48h) 308 mg/l (Daphnia magna)

- · 12.2 Persistence and degradability Not easily biodegradable
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue		
20 01 13*	solvents	
15 01 04	metallic packaging	
HP3	Flammable	
HP4	Irritant - skin irritation and eye damage	
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity	
HP14	Ecotoxic	

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

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B

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	UN1950
· 14.2 UN proper shipping name	UN1950 AEROSOLS, ENVIRONMENTALLY
· ADR, ADN	HAZARDOUS
· IMDG	AEROSOLS, MARINE POLLUTANT
· IATA	AEROSOLS, flammable

· 14.3 Transport hazard class(es)

· ADR



· Class 2 5F Gases. · Label 2.1

· ADN

· ADN/R Class: 2 5F

· IMDG



· Class
 · Label
 2.1 Gases.
 2.1

· IATA



• Class 2.1 Gases. • Label 2.1

· 14.4 Packing group

· ADR, IMDG, IATA Void

• 14.5 Environmental hazards: Product contains environmentally hazardous

substances: Pentane
• Marine pollutant:

Yes

Symbol (fish and tree)

· Special marking (ADR): Symbol (fish and tree)

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· IMDG

· Limited quantities (LQ)

· Excepted quantities (EQ)

· UN "Model Regulation":



 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Code Segregation Code	Warning: Gases. F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.	
14.7 Maritime transport in bulk according to IMO instruments Not applicable.		
Transport/Additional information:	T	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code	1L Code: E0 Not permitted as Excepted Quantity 2 D	

1L

HAZARDOUS

Not permitted as Excepted Quantity

UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY

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SECTION 15 Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 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 is listed.

- · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

78-93-3 butanone

3

 Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

78-93-3 butanone

3

- · National regulations:
- · Breakdown regulations:

Class	Share in %		
NK	75-<100		

- · VOC-CH 83.20 %
- · VOC-EU 588.2 g/l
- Danish MAL Code 5-3
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

· Classification according to Regulation (EC) No 1272/2008

Physical and chemical properties: The classification is based on the results of the mixtures tested. Health hazards, Environmental hazards: The method of classification of mixtures based on the constituents of the mixture (sum formula).

Department issuing SDS: Produktsicherheit

Contact: I. Geurtz

Date of previous version: 02.11.2022

· Version number of previous version: 45

V

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

DNEL: Derived No-Effect Level (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1A: Flammable gases - Category 1A

Aerosol 1: Aerosols - Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

Press. Gas (Liq.): Gases under pressure - Liquefied gas

Flam. Liq. 2: Flammable liquids - Category 2

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

* Data compared to the previous version altered. *

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The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.