

Safety Data Sheet

according to Regulation (EC) Nr. 1907/2006 (REACH)

Print date: 08.05.2019

Revision number 2.1

Version date: 08.05.2019

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

1.1 Product identifier

· **Product name:** Constanta CoolSpray

· **Product code:** 18952

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

· **Identified uses of the substance or mixture**

Cooling Liquid for Clipping Blades

1.3 Details of the supplier of the safety data sheet

Albert Kerbl GmbH

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www.kerbl.com

Tel.: 0049-(0)8086-933-100

E-Mail: info@kerbl.com

· **Responsible Department:**

Albert Kerbl GmbH

Tel.: 0049-(0)8086-933-104

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1.4 Emergency telephone number:

Gemeinsames Giftinformationszentrum der Länder Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thüringen

c/o HELIOS Klinikum Erfurt Nordhäuser Straße 74

Tel.: (03 61) 73 07 30 - Fax: (03 61) 7 30 73 17

E-Mail: ggiz@ggiz-erfurt.de - Internet: www.ggiz-erfurt.de

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) Nr. 1272/2008

Aerosol: Aerosol 1 (H222, H229)

Skin corrosion/irritation: Skin Irrit. 2 (H315)

Serious eye damage/eye irritation: Eye Irrit. 2 (H319)

Specific target organ toxicity - single exposure: STOT SE 3 (H336)

Hazardous to the aquatic environment: Aquatic Chronic 2 (H411)

EUH208

2.2 Label elements

Label elements according to Regulation (EC) Nr. 1272/2008 (CLP/GHS)

Hazard pictograms



(GHS 02)



(GHS07)



(GHS09)



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Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

EUH208 Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

Precautionary statements

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.

P273 Avoid release to the environment.

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

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

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

2.3 Other hazards

· The mixture does not meet the criteria for PBT or vPvB.

3 Composition/information on ingredients

3.2 Mixtures**Hazardous ingredients:**

CAS: 64742-49-0 EC-Nr. 927-510-4 Reg.: 01-2119475515-33	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics Flam. Liq. 2; H225 Asp. tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	30-60 %
CAS: 64742-65-0 EC-Nr. 265-169-7 Index-Nr. 649-474-00-6 Reg.: 01-2119471299-27	Distillates (petroleum), solvent-dewaxed heavy paraffinic Asp. tox. 1; H304	15-30 %
CAS: 74-98-6 EC-Nr. 200-827-9 Index-Nr. 601-003-00-5	Propane Flam. Gas 1: H220; Press. Gas: H280	10-40 %
CAS: 106-97-8 EC-Nr. 203-448-7 Index-Nr. 601-004-00-0	Butane Flam. Gas 1: H220; Press. Gas: H280	10-40 %
CAS: 75-28-5 EC-Nr. 200-857-2 Index-Nr. 601-004-00-0	Isobutane Flam. Gas 1: H220; Press. Gas: H280	10-40 %
CAS: 67-64-1 EC-Nr. 200-662-2 Index-Nr. 606-001-00-8	Acetone Flam. Liq. 2; H225; Eye Irrit. 2; H319; STOT SE3; H336;	5-20 %



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CAS: 55965-84-9

Index-Nr. 613-167-00-5

Reaction mass of:

5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and
2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Acute Tox. 3;H301 Acute Tox. 3;H311 Acute Tox. 3;H331

Skin Corr. 1B;H314 Skin Sens. 1;H317

Aquatic Acute 1;H400 Aquatic Chronic 1;H410

<0.0015%

Additional information:

The wording of the listed risk phrases and hazard statements refer to section 16.

4 First aid measures

4.1 Description of first aid measures**· General information:**

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person.

· Inhalation:

Move to fresh air. If symptoms persist, call a physician.

· Skin contact:

Remove immediately any soiled or splashed garment. Rinse abundantly in the water and in the soap. Clean clothes separately before reusing them. Consult a doctor in case of persistent pain.

· Eye contact:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

Consult an ophthalmologist.

· Ingestion:

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Keep the person exposed at rest. Do not force vomiting. Seek medical attention, showing the label. If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation of spray mist is irritating to the upper airways.

4.3 Indication of any immediate medical attention and special treatment needed

None

5 Firefighting measures

5.1 Extinguishing mediaSuitable methods of extinction - In the event of a fire, use: sprayed water or water mist, foam, multipurpose ABC powder, BC powder, carbon dioxide (CO₂)

Unsuitable methods of extinction - In the event of a fire, do not use: water jet

5.2 Special hazards arising from the substance or mixtureA fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke. In the event of a fire, the following may be formed: carbon monoxide (CO), carbon dioxide (CO₂)**5.3 Advice for firefighters****Special protective equipment:** Wear self-contained breathing apparatus.**Further information**

Cool endangered containers with water spray jet.

Dispose fire residues and contaminated fire fighting water in accordance with official regulations.



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6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected people away.
 Keep people away and stay on the upwind side.
 Keep ignition sources away.
 Consult the safety measures listed under headings 7 and 8.

6.2 Environmental precautions:

Avoid unnecessary release to the environment. Prevent any material from entering drains or waterways. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up:

Collect spillage. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ensure adequate ventilation.

6.4 Reference to other sections

Information regarding safe handling see chapter 7.
 Information regarding personal protection see chapter 8.
 Information regarding disposal see chapter 13.

7 Handling and storage

7.1 Precautions for safe handling

Ensure that there is adequate ventilation, especially in confined areas.
 Open and handle container with care.

Fire prevention:

Keep ignition sources away - Do not smoke. Take precautionary measures against static discharges. Pressurized container. Protect from sunlight and temperatures above 50 °C (e.g. by electric lights). Do not open by force or burn even after use. Do not spray in flames or on hot surfaces.

7.2 Conditions for safe storage, including any incompatibilities

Storage

· Requirements for storage rooms and vessels:

Store in a cool place.
 Official regulations on storing pressurized containers must be observed.
 Store away from oxidizing agents.

Further information about storage conditions:

Keep container tightly closed.
 Not keep the container sealed.
 Store in tightly closed containers in a cool, dry place.
 Protect from heat and direct sunlight.

Recommended storage temperature: 10-40 °C

Storage class: 2B

7.3 Specific end use(s) Keep out of reach of children.



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8 Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits		Exposure limit	ml/m ³	mg/m ³	Remarks
	Country				
64742-49-0	D, TRGS 900	AGW		700	2(I); AGS
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics					
67-64-1 Acetone	EU	OEL	500	1210	8 h
	D, TRGS 900	AGW	500	1200	2(I); DFG
	UK, WEL	TWA	500	1210	8 h
		STEL	1500	3620	15 min
	F, INRS	VME	500	1210	8 h
			1000	2420	15 min
106-97-8 Butan	D, TRGS 900	AGW	1000	2400	4(II); DFG
	UK, WEL	TWA	600	1450	8 h
		STEL	750	1810	15 min
	F, INRS	VME	800	1900	8 h
74-98-6 Propan	D, TRGS 900	AGW	1000	1800	4(II); DFG
	UK, WEL	TWA	1000	1800	8 h
75-28-5 Isobutan	D, TRGS 900	AGW	1000	2400	4(II); DFG
Biological limits		Country	mg/l	Remarks	
67-64-1 Acetone	D, TRGS 903		80	Urine, end of shift/exposure	

8.2 Exposure controls / Personal protection

Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

Eye / face protection

Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes. Before handling, wear safety goggles with protective sides in accordance with standard EN166. In the event of high danger, protect the face with a face shield. When spraying, wear a face shield in accordance with standard EN166. Prescription glasses are not considered as protection. Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours. Provide eyewash stations in facilities where the product is handled constantly.

Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact. Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation. Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended:

- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVC (polyvinyl chloride)
- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties:

- Impervious gloves in accordance with standard EN374

Skin protection (other than of the hands)

Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.



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Respiratory protection

In case of insufficient ventilation, wear respiratory protective equipment with filter.

Thermal hazards

No data available.

Exposure controls regarding environmental protection

No data available.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- **General Information**
- **Appearance:**
 - Form: Aerosol
 - Colour: colourless
- **Odour:** solvent
- **Smell Threshold:** not determined
- **pH:** not determined
- **Change of state**
 - Melting point/range: not relevant
 - Boiling point/range: -42,1/-11,7/-0,5 °C (Propane/Isobutane/Butane)
- **Flash point:** -104/-83/-60 °C (Propane/Isobutane/Butane)
- **Flammability (solid, gas):** not applicable
- **Ignition temperature:** 450/460/365 °C (Propane/Isobutane/Butane)
- **Thermal decomposition:** not relevant
- **Autoinflammability:** not self-flammable
- **Explosion hazard:** Pressurised container: May burst if heated.
- **Explosion limits:**
 - Lower: 1,7/1,5/1,4 Vol.-% (Propane/Isobutane/Butane)
 - Upper: 10,8/9,4/9,4 Vol.-% (Propane/Isobutane/Butane)
- **Vapour pressure at 20 °C:** 8,33/3,02/2,08 bar (Propane/Isobutane/Butane)
- **Density:** not determined
- **Bulk density** not determined
- **Vapour density** not determined
- **Evaporation rate** not determined
- **Solubility / miscibility**
 - Water: not or little miscible.
- **Partition coefficient (n-Octanol/Water):** not determined
- **Viscosity:** not determined
- **Oxidising properties** not determined

9.2 Other information

No data available.



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10 Stability and reactivity

10.1 Reactivity Pressurised container: May burst if heated.

10.2 Chemical stability This mixture is stable under the recommended handling and storage conditions in section 7.

10.3 Possibility of hazardous reactions No hazardous reactions when stored under the recommended handling and storage conditions.

10.4 Conditions to avoid:

Sunlight
High temperatures.

10.5 Incompatible materials: Reacts with strong oxidants.

10.6 Hazardous decomposition products: None when used as intended.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:

64742-49-0 Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Oral	LD-50	>5840 mg/kg (Rat)
Dermal	LD-50	>2920 mg/kg (Rat)
Inhalation	LC-50	>23,3 mg/l (Rat, 4h)

64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic

Oral	LD-50	5000 mg/kg (Rat)
Dermal	LD-50	2000-5000 mg/kg (Rabbit)
Inhalation	LC-50	2,18-5-53 mg/l (Rat, 4h)

67-64-1 Acetone

Oral	LD-50	5800 mg/kg (Rat)
Dermal	LD-50	>7426 mg/kg (Rabbit)
Inhalation	LC-50	55700 ppm (Rat, 3h)

Skin corrosion/irritation:

Causes skin irritation.

Eye damage/irritation:

Causes serious eye irritation.

Sensitisation, respiratory or skin:

Contains CIT/MIT (3:1). May produce an allergic reaction.

Carcinogenicity, germ cell mutagenicity, reproductive toxicity (CMR):

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

Specific target organ toxicity (STOT), single/repeated exposure:

May cause drowsiness or dizziness.

Aspiration hazard:

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

Additional toxicological information:

Inhalation of concentrated vapors as well as oral intake will lead to anesthesia-like conditions and headache, dizziness, etc. Has a degreasing effect on the skin!



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12 Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects

Aquatic Toxicity:

67-64-1 Acetone

LC-50 7280 mg/l (Fish, 96 h)

EC-50 2844 mg/l (Algae, 14 d)

LC-50 8800 mg/l (Daphnia, 48 h)

12.2 Persistence and degradability

64742-49-0 Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

98% OECD301F, 28d

64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic

31% OECD301B, 28d

67-64-1 Acetone

90.9% OECD301B, 28d

12.3 Bioaccumulative potential

Is not expected to be bioaccumulable.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

The mixture does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects

No data available.

Additional ecological information No data available.

13 Disposal considerations

13.1 Waste treatment methods

Recommendation:

Must not be disposed together with household garbage. Do not empty into drains.

Must be supplied to an authorized hazardous waste incineration plant, after pretreatment, in accordance with regulations for special waste.

European waste catalog

The listed (n) waste number (s) according to the European Waste Catalogue (EWC), are a recommendation. A final decision must be taken in agreement with the regional waste management company.

16 05 04* gases in pressure containers, containing hazardous substances (including halons)

Uncleaned packaging:

Recommendation: Disposal according to official regulations.



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14 Transport information

14.1 UN number

· ADR/RID, ADN, IMDG, ICAO/IATA	UN1950
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14.2 UN proper shipping name

· ADR/RID, ADN	AEROSOLS
IMDG	AEROSOLS
· ICAO/IATA	AEROSOLS, flammable

14.3 Transport hazard class(es)

· ADR/RID, ADN, IMDG, ICAO/IATA	2.1
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Classification code

· ADR/RID, ADN	5F
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Special Provisions

· ADR/RID, ADN	190, 327, 344, 625
· IMDG	63, 190, 277, 327, 344, 959
· ICAO/IATA	A145, A167, A802

14.4 Packing group

none

14.5 Environmental hazards

Dangerous for the environment

14.6 Special precautions for user

EmS	F-D, S-U
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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**EU-Regulations**

None

National Regulations**Germany: Wassergefährdungsklasse (WGK)**

clearly hazardous to water (WGK 2), Classification according to AwSV

15.2 Chemical safety assessment: No data available



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16 Other information

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Revision notes

* Changes since the last version

Abbreviations

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

Title for H and EUH indications (Number and text)

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapour.

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

EUH208 Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

Methods of evaluating information referred to in Article 9 of Regulation (EC) No 1272/2008 for the purpose of classification

Classification based on the components