

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 19.11.2024

Version number 14 (replaces version 13)

Revision: 19.11.2024

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

1.1 Product identifier

Trade name: **Spray Electronic Cleaner**

Article number: 87611

UFI: 86S2-A0RM-U006-YDHW

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

No further relevant information available.

Application of the substance / the mixture

Cleaner solvent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

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



GHS02 GHS07 GHS09

Signal word

Danger

Hazard-determining components of labelling:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, < 5% n-hexane

Hazard statements

H222-H229 Extremely flammable aerosol. 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.

Precautionary statements

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

P102 Keep out of reach of children.

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P103	Read carefully and follow all instructions.
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 spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards**· Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.**· Determination of endocrine-disrupting properties**

For information on endocrine disrupting properties see section 11.

SECTION 3: Composition/information on ingredients**· 3.2 Mixtures**· **Description:** Mixture: consisting of the following components.**· Dangerous components:**

EC number: 921-024-6 Reg.nr.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, < 5% n-hexane Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	50-100%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	12.5-25%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide Press. Gas (Liq.), H280	1-5%

· Regulation (EC) No 648/2004 on detergents / Labelling for contentsaliphatic hydrocarbons ≥30%· **Additional information:** For the wording of the listed hazard phrases refer to section 16.**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.

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- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- 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: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- **5.2 Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released:
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- Protective equipment: Mount respiratory protective device.
- Additional information Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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.
Do not flush with water or aqueous cleansing agents
- **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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- Information about fire - and explosion protection: Fumes can combine with air to form an explosive mixture.
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.

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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:

Store away from foodstuffs.

- Further information about storage conditions:

Protect from frost.

Keep container tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

- **Storage class:**

2 B

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

No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- Ingredients with limit values that require monitoring at the workplace:

124-38-9 carbon dioxide

IOELV | Long-term value: 9000 mg/m³, 5000 ppm

- DNELs

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, < 5% n-hexane

Oral DNEL (Langzeit-wiederholt) 699 mg/kg bw/day (BEV)

Dermal DNEL (Langzeit-wiederholt) 773 mg/kg bw/day (ARB)

699 mg/kg bw/day (BEV)

Inhalative DNEL (Langzeit-wiederholt) 2,035 mg/m³ Air (ARB)608 mg/m³ Air (BEV)

67-63-0 propan-2-ol

Oral DNEL (Kurzzeit-akut) 51 mg/kg bw/day (BEV)

DNEL (Langzeit-wiederholt) 26 mg/kg bw/day (BEV)

Dermal DNEL (Langzeit-wiederholt) 888 mg/kg bw/day (ARB)

319 mg/kg bw/day (BEV)

Inhalative DNEL (Kurzzeit-akut) 1,000 mg/m³ Air (ARB)178 mg/m³ Air (BEV)DNEL (Langzeit-wiederholt) 500 mg/m³ Air (ARB)89 mg/m³ Air (BEV)

- PNECs

67-63-0 propan-2-ol

PNEC (wässrig) 2,251 mg/l (KA)

140.9 mg/l (MW)

140.9 mg/l (SW)

140.9 mg/l (WAS)

PNEC (fest) 28 mg/kg Trockengew (BO)

552 mg/kg Trockengew (MWS)

552 mg/kg Trockengew (SWS)

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- Additional information: The lists valid during the making were used as basis.
 - **8.2 Exposure controls**
 - Appropriate engineering controls No further data; see section 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.
 - Respiratory protection:
 - Filter AX
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
 - Hand protection
 - Preventive skin protection by use of skin-protecting agents is recommended.
 - After use of gloves apply skin-cleaning agents and skin cosmetics.
 - The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.
 - This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).
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Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves
 - Fluorocarbon rubber (Viton)
 - Nitrile rubber, NBR
 - 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.
 - Penetration time of glove material
 - Value for the permeation: Level \leq 480 min
 - The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - For the permanent contact gloves made of the following materials are suitable:
 - Vitoject (KCL, Art_No. 890)
 - Fluorocarbon rubber (Viton)
 - Butyl rubber, BR
 - As protection from splashes gloves made of the following materials are suitable:
 - Nitrile rubber, NBR
 - Camatril (KCL, 730, 731, 732, 733)

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- Not suitable are gloves made of the following materials:
 - Butoject (KCL, Art_No. 897, 898)
 - Butyl rubber, BR
- Eye/face protection
 - Strong material gloves
 - Leather gloves
- Body protection:
 - Use protective suit.



Tightly sealed goggles

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

- General Information
- Colour: Clear
- Odour: Solvent-like
- Odour threshold: Not determined.
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range Not applicable, as aerosol.
- Flammability Not applicable.
- Lower and upper explosion limit
- Lower: 0.6 Vol %
- Upper: 12 Vol %
- Flash point: -12 °C
- Auto-ignition temperature: 425 °C (67-63-0 propan-2-ol)
- Decomposition temperature: Not determined.
- pH Not determined.
- Viscosity: Not applicable
- Kinematic viscosity Not determined.
- Dynamic: Not determined.
- Solubility
- water: Not miscible or difficult to mix.
- Partition coefficient n-octanol/water (log value) Not determined.
- Vapour pressure at 20 °C: 5,500 hPa
- Density and/or relative density
- Density at 20 °C: 0.74 g/cm³
- Relative density Not determined.
- Vapour density Not determined.

9.2 Other information

- Appearance:
- Form: Aerosol
- Important information on protection of health and environment, and on safety.
- 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: 97.0 %
- Change in condition
- Evaporation rate Not applicable.

- Information with regard to physical hazard classes
- Explosives Void

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· <u>Flammable gases</u>	Void
· <u>Aerosols</u>	Extremely flammable aerosol. Pressurised container: May burst if heated.
· <u>Oxidising gases</u>	Void
· <u>Gases under pressure</u>	Void
· <u>Flammable liquids</u>	Void
· <u>Flammable solids</u>	Void
· <u>Self-reactive substances and mixtures</u>	Void
· <u>Pyrophoric liquids</u>	Void
· <u>Pyrophoric solids</u>	Void
· <u>Self-heating substances and mixtures</u>	Void
· <u>Substances and mixtures, which emit flammable gases in contact with water</u>	Void
· <u>Oxidising liquids</u>	Void
· <u>Oxidising solids</u>	Void
· <u>Organic peroxides</u>	Void
· <u>Corrosive to metals</u>	Void
· <u>Desensitised explosives</u>	Void

SECTION 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:** Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- **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:**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, < 5% n-hexane**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	2,800-3,100 mg/kg (rabbit)
	LD50	>3,160 mg/kg (rabbit) (IUCLID)
Inhalative		>2,920 mg/kg (rat)
	LC50/4 h	>25.2 mg/l (rat) (IUCLID)

67-63-0 propan-2-ol

Oral	LD50	>2,000 mg/kg (rabbit)
		5,840 mg/kg (rat) (OECD 401)
Dermal	NOAEL-Werte	400 mg/kg (rat)
	LD50	13,900 mg/kg (rabbit) (OECD 402)
Inhalative		16,400 mg/kg (rabbit) (OECD402)
	LC50/8h	47.5 ppm (rat)
	LC50/4 h	>25 mg/l (rat)

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LC50	25,000 mg/m ³ (rat)
LC50/48h	>100 mg/l (Leuciscus idus)

- Primary irritant effect: Causes skin irritation.
- Skin corrosion/irritation Causes serious eye 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

None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

- Aquatic toxicity:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, < 5% n-hexane

EC50/48h	3 mg/l (daphnia magna)
EL50/48h	3 mg/l (daphnia magna)
EL50/72h	30-100 mg/l (Pseudokirchneriella subcapitata)
LL50/96h	11.4 mg/l (Oncorhynchus mykiss)
NOELR/72h	3 mg/l (Pseudokirchneriella subcapitata)
NOEC/21d	0.17 mg/l (daphnia magna)
LC50/96h	2.6 mg/l (piscis) (IUCLID)
LC50/72h	15.8 mg/l (Oncorhynchus mykiss)

67-63-0 propan-2-ol

EC50/24h	9,714 mg/l (daphnia magna)
EC50	>1,000 mg/l (BES)
LC50/24h	9,714 mg/l (daphnia magna)
EC50/15min	22,000 mg/l (Photobac. phosphoreum)
IC50/72h	>1,000 mg/l (Desmodesmus subspicatus)
EC10/18h	5,175 mg/l (pseudomonas putida) (DIN 38412)
EC50/48h	9,714 mg/l (daphnia magna) (OECD 202)
EC50/72h	>1,000 mg/l (algae)
	>100 mg/l (Scenedesmus subspicatus)
LC50/96h	6,550 mg/l (piscis)
	9,640 mg/l (Pimephales promelas) (OECD 203)

- **12.2 Persistence and degradability** No further relevant information available.
- **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.

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- **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects**

- Remark:

Toxic for fish

- Additional ecological information:

- General notes:

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

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

SECTION 13: Disposal considerations

- **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 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 13*	solvents
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 04	metallic packaging

- Uncleaned packaging:

- Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN number or ID number**

- ADR, IMDG, IATA

UN1950

- **14.2 UN proper shipping name**

- ADR

- IMDG

- IATA

1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS, MARINE POLLUTANT AEROSOLS, flammable

- **14.3 Transport hazard class(es)**

- ADR



- Class

2 5F Gases.

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· <u>Label</u>	2.1
· <u>IMDG</u>	
 	
· <u>Class</u>	2.1 Gases.
· <u>Label</u>	2.1
· <u>IATA</u>	
	
· <u>Class</u>	2.1 Gases.
· <u>Label</u>	2.1
· 14.4 Packing group	
· <u>ADR, IMDG, IATA</u>	Void
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances:
· <u>Marine pollutant:</u>	Yes
	Symbol (fish and tree)
· <u>Special marking (ADR):</u>	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Gases.
· <u>Hazard identification number (Kemler code):</u>	-
· <u>EMS Number:</u>	F-D,S-U
· <u>Stowage Code</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.
· <u>Segregation Code</u>	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.
· <u>Transport/Additional information:</u>	
· <u>ADR</u>	
· <u>Limited quantities (LQ)</u>	1L
· <u>Excepted quantities (EQ)</u>	Code: E0 Not permitted as Excepted Quantity
· <u>Transport category</u>	2
· <u>Tunnel restriction code</u>	D
· <u>IMDG</u>	
· <u>Limited quantities (LQ)</u>	1L

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· <u>Excepted quantities (EQ)</u>	Code: E0 Not permitted as Excepted Quantity
· <u>UN "Model Regulation":</u>	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

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
 - Seveso category
 - Qualifying quantity (tonnes) for the application of lower-tier requirements
 - Qualifying quantity (tonnes) for the application of upper-tier requirements
 - REGULATION (EC) No 1907/2006 ANNEX XVII
- None of the ingredients is listed.
E2 Hazardous to the Aquatic Environment
P3b FLAMMABLE AEROSOLS
- 200 t
500 t
- 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

None of the ingredients is listed.

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

None of the ingredients is listed.

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 721.7 g/l

· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

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.
This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

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<ul style="list-style-type: none"> · <u>Department issuing SDS:</u> · <u>Date of previous version:</u> · <u>Version number of previous version:</u> · <u>Abbreviations and acronyms:</u> 	<p>Laboratory 24.01.2023 13</p> <p>RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative ATE: Acute toxicity estimate values Aerosol 1: Aerosols – Category 1 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</p>
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