Ice Free 400ml

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

1.1. Product identifier

Trade name/designation:

Ice Free 400ml

Article No.:
T132201

UFI:
YQHG-61D9-AY69-XQ5F

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

Use of the substance/mixture:
De-icer

*

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
aerosol dispensers and lighters *(Aerosol 1)*	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
STOT-repeated exposure *(STOT RE 2)*	H373: May cause damage to organs through prolonged or repeated exposure.	

2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark



GHS08
Health hazard

Signal word: Danger

Hazard components for labelling:
Ethanediol (cf. glycol)

Hazard statements for physical hazards	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

Hazard statements for health hazards	
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements Prevention	
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.
P280	Wear eye protection/face protection.

Precautionary statements Response	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

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

Precautionary statements Disposal	
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

2.3. Other hazards

Other adverse effects:
In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 3: Composition/information on ingredients

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3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64-17-5 EC No.: 200-578-6 REACH No.: 01-2119457610-43	**ethanol** The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. **Acute Toxicity Estimate** ATE (oral) 10,470 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 20 mg/L	50 – < 100 Vol-%
CAS No.: 107-21-1 EC No.: 203-473-3 REACH No.: 01-2119456816-28	**Ethanediol (cf. glycol)** Substance with a community workplace exposure limit. **Acute Toxicity Estimate** ATE (oral) 1,600 mg/kg ATE (dermal) > 3,500 mg/kg	10 – < 20 Vol-%
CAS No.: 75-28-5 EC No.: 200-857-2 REACH No.: 01-2119485395-27	**Isobutane** The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. **Acute Toxicity Estimate** ATE (inhalation, vapour) 1,237 mg/L	5 – < 10 Vol-%

Ice Free 400ml

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 74-98-6 EC No.: 200-827-9 REACH No.: 01-2119486944-21	**propane** The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. **Acute Toxicity Estimate** ATE (oral) 5,840 mg/kg ATE (dermal) 13,900 mg/kg ATE (inhalation, gases) > 25 ppmV ATE (inhalation, vapour) ≥ 50 mg/L	5 – < 10 Vol-%
CAS No.: 124-38-9 EC No.: 204-696-9	**carbon dioxide** Substance with a community workplace exposure limit. **Acute Toxicity Estimate** ATE (oral) ≥ 5,000 mg/kg ATE (dermal) ≥ 5,000 mg/kg ATE (inhalation, vapour) 259,354 mg/L ATE (inhalation, dust/mist) ≥ 50 mg/L	1 – < 3 Vol-%
	Aliphatic hydrocarbons The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation:
IF INHALED: Remove person to fresh air and keep comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.

In case of skin contact:
Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. When in doubt or if symptoms are observed, get medical advice.

After eye contact:
Rinse cautiously with water for several minutes. IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

Following ingestion:
Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

Self-protection of the first aider:
Use personal protection equipment.

4.2. Most important symptoms and effects, both acute and delayed
Headache, Nausea, Dizziness, Fatigue, Skin irritation

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Water mist, Foam, Carbon dioxide (CO2), Extinguishing powder

Unsuitable extinguishing media:
Full water jet

5.2. Special hazards arising from the substance or mixture
Incomplete combustion and thermolysis can produce gases of varying toxicity. In the case of products containing hydrocarbons, e.g. CO, CO2, aldehydes and soot. These can be very dangerous if inhaled in high concentrations or in enclosed spaces.

5.3. Advice for firefighters
Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information
Pressurised container: May burst if heated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Personal precautions:
Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use personal protection equipment. First aider: Pay attention to self-protection!

6.1.2. For emergency responders
Personal protection equipment:
Fight fire with normal precautions from a reasonable distance.

6.2. Environmental precautions
Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

6.3. Methods and material for containment and cleaning up
For containment:
Prevent spread over a wide area (e.g. by containment or oil barriers).
For cleaning up:
Clean contaminated articles and floor according to the environmental legislation.
Other information:
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections
Further information on proper storage: see section 7.
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:
Observe instructions for use.
Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin.If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.
When using do not eat, drink, smoke, sniff.
Wear personal protection equipment (refer to section 8).
In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.
Avoid contact with eyes and skin.
Fire prevent measures:
Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting.

Advices on general occupational hygiene
Avoid exposure - obtain special instructions before use. Wear suitable work clothing. Draw up and observe skin protection programme.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels:
Keep container tightly closed. The official regulations for the storage of pressurised gas packages must be observed.

Hints on storage assembly:
Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Keep away from food, drink and animal feed.

Storage class (TRGS 510, Germany): 2B – Aerosol dispensers and lighters

Further information on storage conditions:
Protect from frost. Protect from direct sunlight. Store in a cool dry place. The official regulations for the storage of pressurised gas packages must be observed.

7.3. Specific end use(s)

Recommendation:
No information available.

SECTION 8: Exposure controls/personal protection

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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)	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m³)
MAK (AT)	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	② 2,000 ppm (3,800 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	**Ethanediol (cf. glycol)** CAS No.: 107-21-1 EC No.: 203-473-3	① 10 ppm (26 mg/m³) ⑤ (kann über die Haut aufgenommen werden) H
MAK (AT)	**Ethanediol (cf. glycol)** CAS No.: 107-21-1 EC No.: 203-473-3	② 20 ppm (52 mg/m³) ⑤ (max. 8x5 min./Schicht, Momentanwert, kann über die Haut aufgenommen werden) H
IOELV (EU)	**Ethanediol (cf. glycol)** CAS No.: 107-21-1 EC No.: 203-473-3	① 20 ppm (52 mg/m³) ② 40 ppm (104 mg/m³) ⑤ (may be absorbed through the skin)
MAK (AT)	**Isobutane** CAS No.: 75-28-5 EC No.: 200-857-2	② 1,600 ppm (3,800 mg/m³) ⑤ (max. 3x60 min./SchichtMomentanwert)
MAK (AT)	**Isobutane** CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m³)
MAK (AT)	**propane** CAS No.: 74-98-6 EC No.: 200-827-9	② 2,000 ppm (3,600 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	**propane** CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m³)
MAK (AT)	**carbon dioxide** CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m³)
MAK (AT)	**carbon dioxide** CAS No.: 124-38-9 EC No.: 204-696-9	② 10,000 ppm (18,000 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
IOELV (EU)	**carbon dioxide** CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m³)

8.1.2. Biological limit values
No data available

8.1.3. DNEL-/PNEC-values
No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls
If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

8.2.2. Personal protection equipment

Eye/face protection:
Suitable eye protection: Safety goggles with side shields (EN 166).

Skin protection:
Hand protection:
Use protective skin cream before handling the product. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Suitable material: NBR (Nitrile rubber)
Breakthrough time: 480 min.
Thickness of the glove material: 0,45 mm
Body protection:
Wear suitable work clothing. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection:
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
If the relevant occupational exposure limits are exceeded, the following must be observed: Suitable respiratory protective device: Combination filter device (DIN EN 141). Filter unit with filter or blower filter unit type: AX
Observe the wear time limits as specified by the manufacturer.
Observe legal rules and regulations.

8.2.3. Environmental exposure controls
Observe legal rules and regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Form: Aerosol
Colour: colourless
Odour: Alcohol
flammability: No data available

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
Initial boiling point and boiling range	-42 °C		
Flash point	-80 °C		
Evaporation rate	*No data available*		
Upper/lower flammability or explosive limits	1.7 – 28 Vol-%		
Vapour pressure	*No data available*		
Density	0.843 g/cm³	20 °C	① DIN 51757
Water solubility	easily soluble		

9.2. Other information

The data refer to the technical active substance: relative density, colour, odour, viscosity, pH-value.

SECTION 10: Stability and reactivity

10.1. Reactivity
No information available.

10.2. Chemical stability
Chemically stable under conditions of storage, handling and use.

10.3. Possibility of hazardous reactions
Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

10.4. Conditions to avoid
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Take precautionary measures against static discharges.

10.5. Incompatible materials
Oxidizing agent. Pyrophoric or self-heating substances.

10.6. Hazardous decomposition products
Incomplete combustion and thermolysis can produce gases of varying toxicity. In the case of products containing hydrocarbons, e.g. CO, CO2, aldehydes and soot. These can be very dangerous if inhaled in high concentrations or in enclosed spaces.

Further information
Do not mix with other chemicals.

SECTION 11: Toxicological information

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

ethanol CAS No.: 64-17-5 EC No.: 200-578-6
ATE (oral): 10,470 mg/kg
LD_{50} oral: >2,000 mg/kg (Rat) IUCLID
LD_{50} dermal: >2,000 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (vapour): >20 mg/L (Rat) RTECS
Ethanediol (cf. glycol) CAS No.: 107-21-1 EC No.: 203-473-3
LD_{50} oral: 1,600 mg/kg (Rat)
LD_{50} dermal: >3,500 mg/kg (Rabbit)
Isobutane CAS No.: 75-28-5 EC No.: 200-857-2
LC_{50} Acute inhalation toxicity (vapour): 1,237 mg/L (Mouse)
propane CAS No.: 74-98-6 EC No.: 200-827-9
LD_{50} oral: 5,840 mg/kg (Rat)
LD_{50} dermal: 13,900 mg/kg (Rabbit)
LC_{50} Acute inhalation toxicity (gas): >25 ppmV 4 h (Rat)
LC_{50} Acute inhalation toxicity (vapour): ≥50 mg/L 4 h (Rat)
carbon dioxide CAS No.: 124-38-9 EC No.: 204-696-9
ATE (inhalation, vapour): 259,354 mg/L
LD_{50} oral: ≥5,000 mg/kg (Ratte)
LD_{50} dermal: ≥5,000 mg/kg (Kaninchen)
LC_{50} Acute inhalation toxicity (dust/mist): ≥50 mg/L 4 h (Ratte)

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

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

STOT-repeated exposure:
May cause damage to organs through prolonged or repeated exposure. (Ethanediol (cf. glycol))

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

11.2. Information on other hazards

Endocrine disrupting properties:
No information available.

SECTION 12: Ecological information

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12.1. Toxicity

ethanol CAS No.: 64-17-5 EC No.: 200-578-6
LC_{50}: >1,000 mg/L 4 d (fish)
LC_{50}: =11,200 mg/L 1 d
EC_{50}: >1,000 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}: =275 mg/L 3 d
NOEC: =9.6 mg/L (crustaceans, Ceriodaphnia dubia)
ErC_{50}: >100 mg/L
LC_{50}: 8,140 mg/L 2 d (fish, Leuciscus idus (golden orfe))
EC_{50}: 6,500 mg/L (Algae/water plant, Pseudomonas putida)
NOEC: 250 mg/L (fish, Danio rerio)
ErC_{50}: 275 mg/L 3 d (Algae/water plant, Chlorella vulgaris)
ErC_{50}: =275 mg/L 3 d (Chlorella vulgaris)
Ethanediol (cf. glycol) CAS No.: 107-21-1 EC No.: 203-473-3
LC_{50}: 72,860 mg/L 4 d (fish, Pimephales promelas)
EC_{50}: >100 mg/L 2 d (crustaceans, Daphnia magna)
NOEC: ≥1,000 mg/L (crustaceans, Americamysis bahia)
NOEC: ≥72,860 mg/L (fish, Pimephales promelas)
ErC_{50}: 6,500 – 13,000 mg/L 4 d (Algae/water plant, Selenastrum capricornutum)
NOEC: 8,590 mg/L (crustaceans, Ceriodaphnia spec)
Isobutane CAS No.: 75-28-5 EC No.: 200-857-2
LC_{50}: 91.42 mg/L 4 d (fish)
EC_{50}: 69.43 mg/L 2 d (crustaceans, Daphnia sp.)
ErC_{50}: 19.37 mg/L 4 d (Algae/water plant)

propane CAS No.: 74-98-6 EC No.: 200-827-9
LC_{50}: 9,640 mg/L 4 d (fish, Pimephales promelas)
LC_{50}: 0.41 mg/L 4 d (fish, Oncorhynchus mykiss)
LC_{50}: 49.9 mg/L 4 d (fish)
EC_{50}: >100 mg/L (Algae/water plant, Bacteria)
EC_{50}: 0.17 mg/L 3 d (Algae/water plant, Selenastrum capricornutum)
EC_{50}: 69.43 mg/L 2 d (crustaceans, Daphnia) Calculation with the ECOSAR programme v1.00.
NOEC: 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
ErC_{50}: 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation with the ECOSAR programme v1.00.
LOEC: 1,000 mg/L (Algae/water plant, Algae)
LOEC: 1,000 mg/L (Algae/water plant, Alge)
IC_{50}: 11.3 mg/L 3 d (Algae/water plant)

Assessment/classification:
The product is not: Ecotoxic

12.2. Persistence and degradability

ethanol CAS No.: 64-17-5 EC No.: 200-578-6
Biodegradation: Yes, rapidly
Remark: Readily biodegradable (according to OECD criteria).
propane CAS No.: 74-98-6 EC No.: 200-827-9
Biodegradation: Yes, rapidly

Additional information:
There are no data available on the mixture itself. AOX (mg/l): 0

12.3. Bioaccumulative potential

ethanol CAS No.: 64-17-5 EC No.: 200-578-6
Log K_{OW}: -0.31
Ethanediol (cf. glycol) CAS No.: 107-21-1 EC No.: 203-473-3
Log K_{OW}: -1.36
Isobutane CAS No.: 75-28-5 EC No.: 200-857-2
Log K_{OW}: 1.09
propane CAS No.: 74-98-6 EC No.: 200-827-9
Log K_{OW}: 1.09

Accumulation / Evaluation:
There are no data available on the mixture itself.

12.4. Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment

ethanol CAS No.: 64-17-5 EC No.: 200-578-6
Results of PBT and vPvB assessment: —
Ethanediol (cf. glycol) CAS No.: 107-21-1 EC No.: 203-473-3
Results of PBT and vPvB assessment: —
Isobutane CAS No.: 75-28-5 EC No.: 200-857-2
Results of PBT and vPvB assessment: —
propane CAS No.: 74-98-6 EC No.: 200-827-9
Results of PBT and vPvB assessment: —
carbon dioxide CAS No.: 124-38-9 EC No.: 204-696-9
Results of PBT and vPvB assessment: —
Aliphatic hydrocarbons
Results of PBT and vPvB assessment: —

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

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

**: Evidence for disposal must be provided.*

Waste code packaging

15 01 04	metallic packaging

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

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			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable
14.3. Transport hazard class(es)			
 2.1	 2.1	 2.1	 2.1
14.4. Packing group			
		-	
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special Provisions: 190 | 327 | 344 | 625 **Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E0 **Classification code:** 5F **Tunnel restriction code:** (D) **Remark:** Transport category: 2	**Special Provisions:** 190 | 327 | 344 | 625 **Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E0 **Classification code:** 5F	**Special Provisions:** 63 | 190 | 277 | 327 | 344 | 381 | 959 **Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E0 **EmS-No.:** F-D, S-U	**Special Provisions:** A145 | A167 | A802 **Limited quantity (LQ):** Y203 **Excepted Quantities (EQ):** E0 **Remark:** IATA Packing Instructions - Passenger: 203 IATA Maximum Quantity - Passenger: 75 kg IATA-Verpackungsanweisung - Cargo: 203

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
			IATA Maximum Quantity - Cargo: 150 kg

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
Authorisations:
Regulation (EC) No 1907/2006 ANNEX XVII
Aerosol Directive (75/324/EEC)

Restrictions on use:
Restrictions on use (REACH, Annex XVII) Entry 3, Entry 28

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**

1.3.	Details of the supplier of the safety data sheet
3.2.	Mixtures
8.1.	Control parameters
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1.	Toxicity
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.2.	Abbreviations and acronyms

* **16.2. 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
AOX	Adsorbable Organic halogen compounds
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
IC_{50}	Inhibition Concentration 50 %
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
IUCLID	International Uniform Chemical Information Database
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
RTECS	Registry of Toxic Effects of Chemical Substances
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
ZNS	central nervous system

16.3. Key literature references and sources for data
No data available

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
aerosol dispensers and lighters *(Aerosol 1)*	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
STOT-repeated exposure *(STOT RE 2)*	H373: May cause damage to organs through prolonged or repeated exposure.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15
No data available

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.