

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier:

A.Z. Meisterteile marten repellent aerosol

Identification number: 2775

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

Physically acting repellent. For industrial, consumer, professional use.

1.3. Details of the supplier of the safety data sheet:

Information about the distributor:

Unix Autó Kft.

1139 Budapest, Frangepán utca 55-57.

Tel.: 00 36 1 270 8700

1.3.1. Responsible person:

Unix Autó Kft.

E-mail:

cs@unixauto.com

1.4. Emergency telephone number:

Emergency telephone (07-15:20 h): +36 34 526 210 (CET) on workdays

Health Toxicological Information Service (ETTSZ)

1097 Budapest, Albert Flórián út 2-6.

Tel.: +36 80 201 199, +36 1 476 6464 (0-24 h)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 (CLP):

Aerosols, Hazard Category 1 – H222; H229

Specific target organ toxicity – Single exposure, Hazard Category 3, Narcosis – H336

Specific target organ toxicity – Repeated exposure, Hazard Category 1 – H372

Hazardous to the aquatic environment – Chronic Hazard, Category 2 – H411

Hazard statements:

H222 – Extremely flammable aerosol.

H229 – Pressurised container: May burst if heated.

H336 – May cause drowsiness or dizziness.

H372 – Causes damage to central nervous system through prolonged or repeated exposure.

H411 – Toxic to aquatic life with long lasting effects.

2.2. Label elements:

Components that define the hazards: Hydrocarbons, C₉-C₁₂, n-alkanes, isoalkanes, cyclics, aromatics (2-25%); n-Pentane



Hazard statements:

H222 – Extremely flammable aerosol.

H229 – Pressurised container: May burst if heated.

H336 – May cause drowsiness or dizziness.

H372 – Causes damage to central nervous system through prolonged or repeated exposure.

H411 – Toxic to aquatic life with long lasting effects.

Precautionary statements:

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 vapours and spray.

P273 – Avoid release to the environment.

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

P501 – Dispose of contents/container: At special waste landfill.

2.3. Other hazards:

The product has no other known specific hazards for human or environment.

The ingredients of the product do not meet the criteria for PBT or vPvB substances.

Endocrine disrupting property: Does not contain endocrine disruptors.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances:

Not applicable.

3.2. Mixtures:

Description	CAS number	EC number / ECHA list number	REACH registration number	Conc. (%)	Classification according to Regulation (EC) No 1272/2008 (CLP)		
					Pictogram, signal word code(s)	Hazard class and category code(s)	Hazard statement code(s)
Hydrocarbons, C ₉ -C ₁₂ , n-alkanes, isoalkanes, cyclics, aromatics (2-25%)*	-	919-446-0	01-2119458049-33	20 – 25	GHS02 GHS07 GHS08 GHS09 Danger	Flam. Liq. 3 STOT SE 3 STOT RE 1 Asp. Tox. 1 Aquatic Chronic 2	H226 H336 H372 H304 H411 EUH066
n-Pentane** Index number: 601-006-00-1	109-66-0	203-692-4	01-21194559286-30	15 – 20	GHS02 GHS08 GHS07 GHS09 Danger	Flam. Liq. 2 Asp. Tox. 1 STOT SE 3 Aquatic Chronic 2	H225 H304 H336 H411 EUH066

Isopentane** Index number: 601-085-00-2	78-78-4	201-142-8	01-2119475602-38	1-5	GHS02 GHS08 GHS07 GHS09 Danger	Flam. Liq. 1 Asp. Tox. 1 STOT SE 3 Aquatic Chronic 2	H224 H304 H336 H411 EUHo66
Butane*** Index number: 601-004-00-0	106-97-8	203-448-7	01-2119474691-32	25-27	GHS02 GHS04 Danger	Flam. Gas 1 Press. Gas	H220 H280
Propane*** Index number: 601-003-00-5	74-98-6	200-827-9	01-2119486944-21	17-19	GHS02 GHS04 Danger	Flam. Gas 1 Press. Gas	H220 H280

*: Classification specified by the manufacturer; the substance is not listed in Annex VI of the Regulation (EC) No 1272/2008.

** : Substance having occupational exposure limit value.

***: Propellant.

For the full text of hazard statements, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

General information: In case of contact with eyes and ingestion, seek medical attention immediately.

Recommended personal protective equipment for first aid workers: see section 8.2.2.

INGESTION:

Measures:

- If the victim is conscious, rinse mouth with water and give water to drink.
- Do not induce vomiting.
- Do not give anything by mouth to an unconscious person.
- Call a physician.

INHALATION:

Measures:

- Take the victim into fresh air and remove from the affected zone.
- In case of persistent complaints, obtain medical help.

SKIN CONTACT:

Measures:

- Remove the contaminated clothes.
- Immediately wash the contaminated skin with plenty of water and soap, then apply skin care product.
- In case of persistent complaints, obtain medical help.

EYE CONTACT:

Measures:

- In case of contact with eyes flush with water holding eyelids apart and moving the eyeballs (for 10-15 minutes).
- Remove contact lenses, if easy to do, and then continue rinsing.
- In case of persistent pain, tearing or redness, obtain medical help.

4.2. Most important symptoms and effects, both acute and delayed:

Inhalation: dizziness, headache, drowsiness, nausea, loss of consciousness in severe cases.

Skin: dry skin.

Eye: tearing, redness.

Ingestion: cough, dizziness, weakness, headache, sore throat, stomach pain, shortness of breath, nausea, vomiting, loss of consciousness in severe cases.

Delayed effects: In case of aspiration (aspiration of foreign matter into the respiratory tract) during ingestion or vomiting, lung damage may occur. Symptoms occur several hours (often several days) after exposure and may worsen with physical strain. For this reason, it is very important to keep the patient calm and to monitor the patient afterwards.

4.3. Indication of any immediate medical attention and special treatment needed:

No special treatment needed; treat symptomatically.

Special equipment to be kept at work: eye wash shower or eye wash bottle.

SECTION 5: FIREFIGHTING MEASURES

- 5.1. **Extinguishing media:**
- 5.1.1. **Suitable extinguishing media:**
Water, alcohol resistant foam, solid extinguishing media, carbon dioxide.
- 5.1.2. **Unsuitable extinguishing media:**
High-pressure water jets (splashing, risk of spreading the fire), a combination of foam and water (water breaks down the foam), or, in case of a large fire, solid extinguishing agents, carbon dioxide (the weak cooling effect can cause aerosol cylinders to heat up and explode).
- 5.2. **Special hazards arising from the substance or mixture:**
Extremely flammable aerosol. Pressurised container: May burst if heated.
During combustion or thermal decomposition, carbon monoxide, carbon dioxide, hydrocarbons and other irritating and harmful gases are produced.
- 5.3. **Advice for firefighters:**
Wear full protective clothing and self-contained breathing apparatus, and protective equipment against injuries caused by shrapnel from exploding cylinders.
Aerosol cylinders must be cooled with water, they will explode in a fire. Do not allow anyone near the burning cargo. Cylinder loads at a safe distance from the fire should be removed immediately, if this is not possible, they should be cooled with a water jet.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. **Personal precautions, protective equipment and emergency procedures:**
- 6.1.1. **For non-emergency personnel:**
Allow only well-trained experts wearing suitable protective clothing to abide in the field of accident.
Immediately eliminate all sources of ignition. The vapours of the mixture are heavier than air and can disperse in the air directly above the ground and can be ignited from a distance. Only wear non-sparking, closed protective clothing, protective gloves of at least type J according to EN 374 and respiratory protective equipment with type 'A' (brown) filter according to EN 141 and EN 136 or EN 140.
- 6.1.2. **For emergency responders:**
Only wear non-sparking, closed protective clothing, protective gloves of at least type J according to EN 374 and respiratory protective equipment with type 'A' (brown) filter according to EN 141 and EN 136 or EN 140.
- 6.2. **Environmental precautions:**
Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.
- 6.3. **Methods and material for containment and cleaning up:**
The spilled product should, if necessary based on the extent of the spillage, be contained by a protective barrier and then absorbed with soil, sand or other non-reactive material and collected in a labelled container. The cleaned area (if necessary) may be mopped up with water. Use only non-sparking equipment for containment and decontamination.
- 6.4. **Reference to other sections:**
For further and detailed information see Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

- 7.1. **Precautions for safe handling:**
Observe conventional hygiene precautions.
Avoid inhalation of vapours, sprays, contact with eyes and skin.
Do not eat, drink, or smoke when using this product.
Wash hands thoroughly after the use of this product.
- Technical measures:**
No special measures required.
- Precautions against fire and explosion:**
Keep away from radiant heat and sources of ignition.
Do not use the product near welding work, sparks or hot surfaces.
Do not use near non-explosive electrical equipment unless the main switch is turned off.

7.2. Conditions for safe storage, including any incompatibilities:

Technical measures and storage condition:

Keep away from radiant heat and sources of ignition.

The mixture should not be stored with mineral acids, alkalis, strong oxidizing agents.

Protection against static build-up is required.

During storage, the surface temperature of the bundles or aerosol formulations must not exceed 50 °C, even temporarily.

Incompatible materials: See Section 10.5.

Packaging material: No special prescriptions.

7.3. Specific end use(s):

See Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Occupational exposure limit values (Commission Directive (EC) No 2000/39 of 8 June 2000):

n-Pentane (CAS: 109-66-0): 8 hours: 3000 mg/m³, 1000 ppm

Isopentane (CAS: 78-78-4): 8 hours: 3000 mg/m³, 1000 ppm

DNEL values		Oral exposure		Dermal exposure		Inhalative exposure	
		Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)
Consumer	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data
Worker	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data

PNEC values		
Compartment	Value	Note(s)
Freshwater	no data	no notes
Marine water	no data	no notes
Freshwater sediment	no data	no notes
Marine water sediment	no data	no notes
Sewage Treatment Plant (STP)	no data	no notes
Intermittent release	no data	no notes
Secondary poisoning	no data	no notes
Soil	no data	no notes

8.2. Exposure controls:

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1. Appropriate engineering controls:

In pursuance of work is proper foresight needed to avoid leaking onto clothes and floors and to avoid contact with eyes and skin. Ensure adequate ventilation.

8.2.2. Individual protection measures, such as personal protective equipment:

The information regarding personal protective equipment is only for informative purposes. A complete risk assessment is required before the use of the product for the determination of the appropriate personal protective equipment, taking local circumstances into account.

1. **Eye/face protection:** If there is a risk of splashing, a protective mask with symbol 3 (side protection) is recommended (EN 166).
2. **Skin protection:**
 - a. **Hand protection:** Use appropriate protective gloves (EN 374).
Type of material: nitrile, thickness: ≥ 0.3 mm, shortest permeation time: 30 minutes.
 - b. **Other:** Use appropriate protective clothing.
3. **Respiratory protection:** Not necessary under normal use. In case of risk of prolonged inhalation of spray in large quantities, the use of respiratory protective equipment (EN 140) with type "A" (brown) filters according to EN 141 is recommended.
4. **Thermal hazards:** No thermal hazards known.

8.2.3. Environmental exposure controls:

Do not discharge the mixture into surface water, groundwater or sewers.

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions, an expert's advice is necessary before deciding upon further protective measures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Parameter	Value / Test method / Remarks
1. Physical state	liquid in a form of aerosol
2. Colour	colourless
3. Odour, odour threshold	similar to solvents
4. Melting point/freezing point	no data*
5. Boiling point or initial boiling point and boiling range	approx. -48 °C
6. Flammability	combustible
7. Lower and upper explosion limit	5 – 15 vol.% (literature data)
8. Flash point	not applicable
9. Auto-ignition temperature	not applicable
10. Decomposition temperature	not applicable
11. pH	not applicable
12. Kinematic viscosity	no data*
13. Solubility in water in other solvents	insoluble (data on liquid content) soluble in apolar solvents (data on liquid content)
14. Partition coefficient n-octanol/water (log value)	not applicable
15. Vapour pressure	<1200 kPa (50 °C) >150 kPa (-15 °C)
16. Density and/or relative density	approx. 0.8 g/cm ³ (data on liquid content)
17. Relative vapour density	no data*
18. Particle characteristics	not applicable

9.2. Other information:

9.2.1. Information with regard to physical hazard classes:

Proportion of flammable ingredients: not applicable.

9.2.2. Other safety characteristics:

No other characteristics available.

*: The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet, or the property is not applicable for the product.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

It is not reactive under the recommended storage conditions.

10.2. Chemical stability:

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions:

Under normal handling conditions, no hazardous reactions known.

10.4. Conditions to avoid:

Temperatures above 50 °C, static charging. Do not use ignition sources in the immediate vicinity of the product.

10.5. Incompatible materials:

The product should not be stored with mineral acids, alkalis, strong oxidizing agents and other substances that are corrosive to the aerosol cylinder.

10.6. Hazardous decomposition products:

Thermal decomposition produces carbon monoxide, carbon dioxide, hydrocarbons and other irritating and harmful gases.

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.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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: Causes damage to central nervous system through prolonged or repeated exposure.

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

11.1.1. **Summaries of the information derived from the test conducted:**

No data available.

11.1.2. **Relevant toxicological properties:**

No data available about the product.

Information about the components:

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (ECHA list number: 919-446-0):

Acute toxicity:

LD50 (oral, rat): >5000 mg/kg

LD50 (dermal, rat): >5000 mg/kg

LC50 (inhalation): >5.28 mg/l

Corrosion/irritation:

Skin: non-irritant.

Eye: non-irritant.

Sensitization:

Respiratory: classification criteria not met.

Skin: classification criteria not met.

Germ cell mutagenicity: classification criteria not met.

Carcinogenicity: classification criteria not met.

Reproductive toxicity: classification criteria not met.

n-Pentane (CAS: 109-66-0):

Acute toxicity:

LD50 (oral, rat): >5000 mg/kg

LC50 (inhalation, vapours, rat): >25.3 mg/l/4 h

Corrosion/irritation:

Skin: non-irritant (rabbit).

Eye: non-irritant (rabbit).

Sensitization:

Skin: non-sensitising (guinea pig).

Germ cell mutagenicity: in vitro/in vivo test: both negative.

Reproductive toxicity:

NOAEL (oral, rat): 1000 mg/kg/9 days (maternal and offspring toxicity)

NOAEC (inhalation, vapours, rat): 500 - 200 ppm/9 days (maternal toxicity)

NOAEC (inhalation, vapours, rat): 7000 ppm/9 days (offspring toxicity)

Isopentane (CAS: 78-78-4):

Acute toxicity:

LD50 (oral, rat): >2000 mg/kg

LC50 (inhalation, vapours, rat): 21 000 ppm/4 hours

Corrosion/irritation:

Skin: non-irritant (rabbit).

Eye: non-irritant (rabbit).

Sensitization:

Skin: non-sensitising (guinea pig).

Germ cell mutagenicity: in vitro/in vivo test: both negative.

Reproductive toxicity:

NOAEL (oral, rat): 1000 mg/kg/9 days (maternal and offspring toxicity)

NOAEC (inhalation, vapours, rat): 7000 ppm/9 days (maternal and offspring toxicity)

Butane (CAS: 106-97-8):

Acute toxicity:

LC₅₀ (inhalative, rat): 1443 mg/l/4 h

Germ cell mutagenicity: in vitro/in vivo test: both negative.

Carcinogenicity: not scientifically proven.

Reproductive toxicity:

NOAEC (inhalation, rat): 7131 mg/m³/28 days (fertility)

Propane (CAS: 74-98-6):

LC₅₀ (inhalative, rat): 658 mg/l/15 min

Corrosion/irritation:

Skin: non-irritant (human).

Eye: non-irritant (rabbit).

Sensitization:

Respiratory: not detectable (human).

Skin: not detectable (human).

Germ cell mutagenicity: in vitro/in vivo test: both negative.

Carcinogenicity: not scientifically proven.

Reproductive toxicity:

NOAEC (inhalation, rat): 7131 mg/m³/28 days (fertility)

11.1.3. Information on likely routes of exposure:

Ingestion, inhalation, skin contact, eye contact.

11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:

Inhalation: dizziness, headache, drowsiness, nausea, loss of consciousness in severe cases.

Skin: dry skin.

Eye: tearing, redness.

Ingestion: cough, dizziness, weakness, headache, sore throat, stomach pain, shortness of breath, nausea, vomiting, loss of consciousness in severe cases.

Acute effects:

Inhalation: central nervous system depression.

Skin: skin dryness.

Eye: not expected.

Ingestion: irritation of the digestive tract, central nervous system depression.

Chronic effects:

Inhalation: central nervous system disorders.

Skin: skin dryness, cracking.

Eye: not expected.

Ingestion: not expected.

11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:

May cause drowsiness or dizziness.

Causes damage to central nervous system through prolonged or repeated exposure.

11.1.6. Interactive effects:

No data available.

11.1.7. Absence of specific data:

No information.

11.2. Information on other hazards:

Endocrine disrupting properties:

Endocrine disrupting property: Does not contain endocrine disruptors.

Other information:

No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Toxic to aquatic life with long lasting effects.

Information about the components:

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (ECHA list number: 919-446-0):

LC₅₀ (fish): 1 - 20 mg/l

EC₅₀ (crustaceans): 1 - 20 mg/l

n-Pentane (CAS: 109-66-0):

LC₅₀ (Oncorhynchus mykiss): 4.26 mg/l/96 h

EC₅₀ (Daphnia magna): 2.7 mg/l/48 h

ErC₅₀ (Pseudokirchnerella subcapitata): 10.7 mg/l/72 hours

NOELr (Oncorhynchus mykiss): 6.165 mg/l/28 days (Petrotox)

NOELr (Daphnia magna): 10.76 mg/l/21 days (Petrotox)

Isopentane (CAS: 78-78-4):

LC₅₀ (Oncorhynchus mykiss): 4.26 mg/l/96 h

EC₅₀ (Daphnia magna): 2.3 mg/l/48 h

Er₅₀ (Pseudokirchnerella subcapitata): 10.7 mg/l/72 hours

NOELr (Oncorhynchus mykiss): 7.618 g/l/28 days (Petrotox)

NOELr (Daphnia magna): 13,29 mg/l/21 days (Petrotox)

Butane (CAS: 106-97-8):

Gaseous at normal temperature and pressure, exposure is unlikely.

Propane (CAS: 74-98-6):

Gaseous at normal temperature and pressure, exposure is unlikely.

12.2. Persistence and degradability:

Information about the components:

Hydrocarbons, C₉-C₁₂, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (ECHA list number: 919-446-0):

Biodegradability: rapidly biodegradable.

n-Pentane (CAS: 109-66-0):

Half-life (dissipation) in air DT₅₀: 3.95 days (calculated value).

Half-life in water: not susceptible to hydrolysis; no abiotic degradation.

Biodegradability: rapidly biodegradable.

Isopentane (CAS: 78-78-4) :

In half-life (dissipation) air DT₅₀: 2.3 days (calculated value).

Half-life in water: not susceptible to hydrolysis; no abiotic degradation.

Biodegradability: rapidly biodegradable.

Butane (CAS: 106-97-8):

Half-life in air: about 6.3 days (indirect photolysis).

Propane (CAS: 74-98-6):

Half-life in air: about 13 days (indirect photolysis).

12.3. Bioaccumulative potential:

Based on the available log K_{ow} (log octanol/water partition coefficients) and BCF (bioconcentration factors), no bioaccumulation is expected.

Information about the components:

Hydrocarbons, C₉-C₁₂, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (ECHA list number: 919-446-0):

log K_{ow}: ≥4 (literature data)

n-Pentane (CAS: 109-66-0):

BCF: 171 (calculated)

Isopentane (CAS: 78-78-4) :

BCF: 171 (calculated)

Butane (CAS: 106-97-8):

log K_{ow}: 2.89

Propane (CAS: 74-98-6):

log K_{ow}: 2.36

12.4. Mobility in soil:

The components of petrol with lower molecular weight released into the environment evaporate almost immediately and undergo photo-oxidative decomposition in the air when exposed to light. Alkanes and cycloalkanes with higher molecular weight are adsorbed onto the surface of organic matter in soil and water and are also completely degraded.

12.5. Results of PBT and vPvB assessment:

The ingredients of the product do not meet the criteria for PBT or vPvB substances.

12.6. Endocrine disrupting properties:

Endocrine disrupting property: Does not contain endocrine disruptors.

12.7. Other adverse effects:

Information about the components:

n-Pentane (CAS: 109-66-0):

POCP (photochemical ozone creation potential): 30 – 40 (depending on the nitrogen oxide content of the air and weather conditions).

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

Disposal according to the local regulations.

13.1.1. Information regarding the disposal of the product:

Dispose of in accordance with applicable regulations.
It can be disposed of by incineration.

Recommendation:

List of Waste Code:

08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

*: Hazardous waste.

13.1.2. Information regarding the disposal of the packaging:

Dispose of in accordance with applicable regulations.
It can be disposed of by re-use.

Recommendation:

List of Waste Code:

15 01 10* packaging containing residues of or contaminated by hazardous substances

*: Hazardous waste.

13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:

No data available.

13.1.4. Sewage disposal:

No data available.

13.1.5. Special precautions for any recommended waste treatment:

No data available.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number or ID number:

UN 1950

14.2. UN proper shipping name:

ADR/RID: AEROSOLS, flammable

IMDG; IATA: AEROSOLS, flammable

14.3. Transport hazard class(es):

2

14.4. Packing group:

No packing group.

14.5. Environmental hazards:

Environmentally hazardous: Yes.

14.6. Special precautions for user:

No relevant information available.

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:

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive (EC) No 1999/45 and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive (EEC) No 76/769 and Commission Directives (EEC) No 91/155, (EEC) No 93/67, (EC) No 93/105 and (EC) No 2000/21

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives (EEC) No 67/548 and (EC) No 1999/45, and amending Regulation (EC) No 1907/2006

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

COMMISSION DIRECTIVE (EU) No 2013/10/EU of 19 March 2013 amending Council Directive (EEC) No 75/324 on the approximation of the laws of the Member States relating to aerosol dispensers in order to adapt its labelling provisions to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

15.2. **Chemical safety assessment:** Has not been carried out.

SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet: No information.

Literature references / data sources:

Safety data sheet issued by the manufacturer (07. 10. 2022, version 1, HU)

Methods used for the classification according to Regulation (EC) No 1272/2008:

Classification	Method
Aerosols, Hazard Category 1 – H222; H229	Based on test methods (test data)
Specific target organ toxicity – Single exposure, Hazard Category 3, Narcosis – H336	Based on calculation method
Specific target organ toxicity – Repeated exposure, Hazard Category 1 – H372	Based on calculation method
Hazardous to the aquatic environment – Chronic Hazard, Category 2 – H411	Based on calculation method

Relevant hazard statements (code and full text) of Sections 2 and 3:

H220 – Extremely flammable gas.

H222 – Extremely flammable aerosol.

H224 – Extremely flammable liquid and vapour.

H225 – Highly flammable liquid and vapour.

H226 – Flammable liquid and vapour.

H229 – Pressurised container: May burst if heated.

H280 – Contains gas under pressure; may explode if heated.

H304 – May be fatal if swallowed and enters airways.

H336 – May cause drowsiness or dizziness.

H372 – Causes damage to central nervous system through prolonged or repeated exposure.

H411 – Toxic to aquatic life with long lasting effects.

EUH 066 – Repeated exposure may cause skin dryness or cracking.

Training advice: No data available.

Full text of the abbreviations in the safety data sheet:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate.

AOX: Adsorbable organic halides.

BCF: Bioconcentration factor.

BOD: Biological Oxygen Demand.

CAS number: Chemical Abstract Service number.

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

CMR effects: Carcinogenic, mutagenic, reprotoxic effects.

COD: Chemical Oxygen Demand.

CSA: Chemical Safety Assessment.

CSR: Chemical Safety Report.

DNEL: Derived-No-Effect-Level.

ECHA: European Chemical Agency.

EC: European Community.

EC number: EINECS and ELINCS numbers (see also EINECS and ELINCS).

EEC: European Economic Community.

EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).

EINECS: European Inventory of Existing Commercial Chemical Substances.

ELINCS: European List of Notified Chemical Substances.

EN: European Norm.

EU: European Union.

EWC: European Waste Catalogue (replaced by LoW – see below).
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IATA: International Air Transport Association.
ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
IMO: International Maritime Organization.
IMSBC: International Maritime Solid Bulk Cargoes.
IUCLID: International Uniform Chemical Information Database.
IUPAC: International Union of Pure and Applied Chemistry.
Kow: n-Octanol - Water Partition Coefficient.
LC₅₀: Lethal concentration resulting in 50 % mortality.
LD₅₀: Lethal dose resulting in 50 % mortality (median lethal dose).
LoW: List of Waste.
LOEC: Lowest Observed Effect Concentration.
LOEL: Lowest Observed Effect Level.
NOEC: No Observed Effect Concentration.
NOEL: No Observed Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
OECD: Organization for Economic Cooperation and Development.
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic.
PNEC: Predicted No Effect Concentration.
QSAR: Quantitative Structure Activity Relationship.
REACH: Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.
SCBA: Self Contained Breathing Apparatus.
SDS: Safety Data Sheet.
STOT: Specific Target Organ Toxicity.
SVHC: Substances of Very High Concern.
UN: United Nations.
UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials.
VOC: Volatile Organic Compound.
vPvB: very Persistent and very Bioaccumulative.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information.

The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product.

It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.