SAFETY DATA SHEET

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

1.1. **Product identifier:**
A.Z. Meisterteile Copper spray

1.2. **Relevant identified uses of the mixture and uses advised against:**
Maintenance spray (lubricant). For industrial, consumer and professional use.
Uses advised against: Use other than identified.

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)

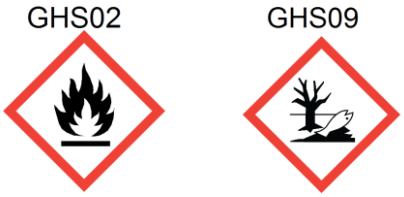
SECTION 2: HAZARDS IDENTIFICATION

2.1. **Classification of the mixture:**

Classification according to Regulation (EC) No 1272/2008 (CLP):
Aerosols, Hazard Category 1 – H222; H229
Hazardous to the aquatic environment – Acute Hazard, Category 1 – H400
Hazardous to the aquatic environment – Chronic Hazard, Category 3 – H412

Hazard statements:
H222 – Extremely flammable aerosol.
H229 – Pressurised container: May burst if heated.
H400 – Very toxic to aquatic life.
H412 – Harmful to aquatic life with long lasting effects.

2.2. **Label elements:**



DANGER

Hazard statements:
H222 – Extremely flammable aerosol.
H229 – Pressurised container: May burst if heated.
H400 – Very toxic to aquatic life.
H412 – Harmful 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.
P261 – Avoid breathing spray.
P271 – Use only outdoors or in a well-ventilated area.
P273 – Avoid release to the environment.
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.
P391 – Collect spillage.
P410 + **P412** – Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
P501 – Dispose of contents/container as hazardous waste.

2.3. **Other hazards:**
The product has no other known specific hazards for human or environment.
The product does not meet the criteria for PBT or vPvB substances.
Endocrine disrupting property: Based on available data, 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)
MOL-Process O 15 process and spindle oil: **Lubricating oils (petroleum), C18-40, solvent-dewaxed hydrocracked distillate-based*** Index number: 649-506-00-9 Note L **Distillates (petroleum), dewaxed light paraffinic, hydrotreated*** Index number: 649-530-00-X Note L **Distillates (petroleum), hydrotreated light paraffinic*** Index number: 649-468-00-3 Note L	94733-15-0 91995-40-3 64742-55-8	305-594-8 295-301-9 265-158-7	01-2119486987-11 01-2119488517-24 01-2119487077-29	4-5	GHS08 Danger	Asp. Tox. 1	H304
Propane Index number: 601-003-00-5	74-98-6	200-827-9	01-2119486944-21	40-50 (Propellant: PB 4.2 T)	GHS02 GHS04 Danger	Flam. Gas 1 Press. Gas	H220 H280
Butane/*** Index number: 601-004-00-0	106-97-8	203-448-7	01-2119474691-32				
Isobutane** Index number: 601-004-00-0	75-28-5	200-857-2	01-2119485395 27-0019				
Copper paste******	mixture	mixture	-	40-50	GHS09 Warning	Aquatic Acute 1 Aquatic Chronic 3	H400 H412

*: Classification specified by the manufacturer that includes other classification in addition to the classification specified by Regulation (EC) No 1272/2008.
**: 1,3-Butadiene content <0.1%
***: Substance having occupational exposure limit value in the country of the distributor.
****: Classification specified by the manufacturer.

Note L:
The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

Copper paste contains:
Copper (CAS: 7440-50-8; EC: 231-159-6; REACH registration number: 01-2119480154-42): 5-<10 %
Acute Tox. 4 – H302
Aquatic Acute 1 – H400 (M factor =10)
Aquatic Chronic 2 – H411
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (CAS: 68411-46-1; EC: 270-128-1; REACH registration number: 01-2119491299-23): 1-<3 %
Aquatic Chronic 3 – H412

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

SECTION 4: FIRST AID MEASURES

4.1. **Description of first aid measures:**

INGESTION:

Measures:

- The product is supplied in an aerosol bottle, so it is unlikely to be swallowed.
- In case of accidental ingestion, do not induce vomiting, seek medical advice.

INHALATION:

Measures:

- Take the victim into fresh air and keep at rest.
- In case of respiratory tract irritation (cough) or difficult breathing, call a doctor immediately.
- If respiratory arrest occurs, a qualified person should provide artificial respiration, or use cardiopulmonary resuscitation in case of cardiac arrest.
- A qualified person may give oxygen, preferably based on medical advice, which may be beneficial.

SKIN CONTACT:

Measures:

- Immediately remove the contaminated, soaked clothes.
- Wash the skin with plenty of lukewarm running water and soap.
- Do not attempt to warm the affected skin area on site. Do not rub or apply dry heat.
- Carefully trim the part of the clothes that adheres to the wound.
- Loosely cover damaged surfaces with a sterile cloth.
- Transport the injured person to a first aid centre or hospital as soon as possible.
- Data for the copper paste: high pressure, strong jet can cause skin damage.

EYE CONTACT:

Measures:

- In case of contact with eyes flush thoroughly with water holding eyelids apart and moving the eyeballs (for at least 15 minutes).
- Remove contact lenses, if present and easy to do.
- Cover both eyes with a sterile cloth and consult a doctor.

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

In high concentrations it can be choking, can cause suffocation, and lack of oxygen can have fatal consequences (propellant data).
Data for Copper paste:
Inhalation: Inhalation of large amounts of vapour may irritate the upper respiratory tract.
Ingestion: May irritate the digestive tract. Nausea, vomiting, diarrhoea.
Skin contact: If the skin surface is exposed to a high-pressure jet of liquid, the product may penetrate into the body, which can cause serious damage even without symptoms.
Eye contact: Not classified.

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

Symptomatic treatment.
Show the safety data sheet or label to the doctor if possible.
No specific antidote.

SECTION 5: FIREFIGHTING MEASURES

5.1. **Extinguishing media:**

5.1.1. **Suitable extinguishing media:**

Extinguishing powder, carbon dioxide (CO_2).
Extinguishing foam, water mist (only by trained persons).

5.1.2. Unsuitable extinguishing media:
Strong water jet. (Only applicable for cooling containers.)

5.2. Special hazards arising from the substance or mixture:
Extremely flammable aerosol.
In case of fire, smoke and other combustion products (CO, CO_2, various hydrocarbons, aldehydes and carbon black) may be formed; the inhalation of such combustion products can have serious adverse effects on health.
Due to the aerosol formulation, large spills of the mixture are unlikely.
The heat of the fire inside the container can cause a rapid increase in pressure and the container can explode.

5.3. Advice for firefighters:
Wear full protective clothing and self-contained breathing apparatus.
The area must be evacuated.
Extinguish fire from a safe distance or sheltered location.
Avoid inhalation of hazardous vapours and toxic decomposition products (approach from the wind).
Personnel and products not yet endangered by fire must be secured.
The contaminated extinguishing water should be collected for elimination.

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.

6.1.2. **For emergency responders:**
Unauthorized persons must be kept away.
Remove all sources of ignition.
Ensure adequate ventilation.
Avoid contact with skin and eyes.
Do not breathe vapour / spray of the product.
Wear full protective clothing and self-contained breathing apparatus.
Due to the oil and copper paste content of the product, there is a risk of slipping if it spills.

6.2. Environmental precautions:
Release of larger quantities is not likely (aerosol can).
If the spilled product (propellant) enters the sewer system, there is a risk of explosion.
All deeper and more distant ignition sources must be eliminated.
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:
Stop leakage if this can be done without risk.
Use water spray to reduce gas concentration.
Close down the danger zone, until the gas vanishes.
Dispose of in accordance with local regulations.
Use only non-sparking tools.

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, contact with skin and eyes, ingestion of the mixture.
The spilled product may cause slipping.
Hands should not be wiped with a cloth that was previously used for cleaning.
Do not put wet rags in the pockets of work clothes.
Do not eat, drink or smoke when using this product.
Technical measures:
Ensure adequate ventilation.
Keep away from heat and sources of ignition.
The rules for pressurized containers must be observed.

Precautions against fire and explosion:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on naked flames or other sources of ignition.
Do not pierce or burn, even after use.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F.
Do not recharge the device.

7.2. **Conditions for safe storage, including any incompatibilities:**
Technical measures and storage condition:
Ensure adequate ventilation.
Take measures to prevent electrostatic charges.
Store in a cool, dry place.
Keep away from heat and sources of ignition.
Protect from frost.
Keep out of the reach of children and away from food.
Storage temperature: under 35 °C.
Incompatible materials: Strong oxidizing agents. 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):
The components of the mixture are not regulated with exposure limit value.

Copper paste:
Copper (CAS: 7440-50-8):

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	1 mg/m³
	Systemic	no data	no data	273 mg/kg/day	no data	20 mg/m³	no data
Worker	Local	no data	no data	no data	no data	1 mg/m³	1 mg/m³
	Systemic	no data	no data	273 mg/kg/day	137 mg/kg/day	20 mg/m³	no data

PNEC values		
Compartment	Value	Note(s)
Freshwater	0.0078 mg/l	no notes
Marine water	0.0052 mg/l	no notes
Freshwater sediment	87 mg/kg	no notes
Marine water sediment	676 mg/kg	no notes
Sewage Treatment Plant (STP)	0.230 mg/l	no notes
Intermittent release	no data	no notes
Secondary poisoning	no data	no notes
Soil	65mg/kg	no notes

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (CAS: 68411-46-1):

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	0.31 mg/kg/day	no data	0.31 mg/kg/day	no data	1.09 mg/m³
Worker	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	0.62 mg/kg/day	no data	4.73 mg/m³

PNEC values		
Compartment	Value	Note(s)
Freshwater	0.051 mg/l	no notes
Marine water	0.0051 mg/l	no notes
Freshwater sediment	9320 mg/kg	no notes
Marine water sediment	932 mg/kg	no notes
Sewage Treatment Plant (STP)	1 mg/l	no notes
Intermittent release	no data	no notes
Secondary poisoning	0.51 mg/l	no notes
Soil	1860 mg/kg	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 spilling onto clothes and floors and to avoid contact with eyes and skin.
Use the product with adequate ventilation.
Use only non-sparking tools.

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

Keep away from food, drink and animal feed.
Wash hands before breaks and at the end of the work.
Do not eat, drink, or smoke when using this product.

1. **Eye/face protection:** Use appropriate safety goggles/face shield with side protection (EN 166) if there is a risk of eye contact.
2. **Skin protection:**
    a. **Hand protection:** The use of appropriate nitrile/fluorinated rubber protective gloves is recommended (EN 374).
    b. **Other:** The use of appropriate, long-sleeved protective clothing and safety shoes is recommended.
3. **Respiratory protection:** If exposure limit values are exceeded, a half mask with a combined "A/P1" filter is recommended (EN 141).
4. **Thermal hazards:** No thermal hazards known.

8.2.3. **Environmental exposure controls:**

Do not let the product and the waste into surface water, soil or drains.
Observe the local and national wastewater regulations.

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	aerosol
2.	Colour	copper coloured
3.	Odour, odour threshold	oily, characteristic
4.	Melting point/freezing point	no data available for the mixture PB 4.2 T: -187.6 - -138.3 °C
5.	Boiling point or initial boiling point and boiling range	no data available for the mixture PB 4.2 T: -104 – -60 °C
6.	Flammability	Product vapours can form an explosive mixture with air. Pressurised container. Do not open, shock, puncture, expose to temperatures above 50 °C, sunlight, radiant heat or throw into a fire, even when empty. Do not spray on open flames or incandescent materials. Refilling the device is prohibited. PB 4.2 T: 5-15 vol.% (literature data)
7.	Lower and upper explosion limit	no data*
8.	Flash point	no data available for the mixture MOL-Process O 15 process and spindle oil: 185 °C (MSZ EN ISO 2592) closed space Copper paste: >200 °C
9.	Auto-ignition temperature	no data available for the mixture Copper paste: >250 °C (ASTM E659) PB 4.2 T: 287-537 °C
10.	Decomposition temperature	no data*
11.	pH	not applicable
12.	Kinematic viscosity	no data available for the mixture MOL-Process O 15 process and spindle oil: 3.5 mm^2/s (100 °C) 15.9 mm^2/s (40 °C)
13.	Solubility in water in other solvents	not soluble PB 4.2 T: 24.6 – 60.4 in water MOL-Process O 15 process and spindle oil: soluble in gasoline, kerosene, toluene, etc.
14.	Partition coefficient n-octanol/water (log value)	no data*
15.	Vapour pressure	no data available for the mixture PB 4.2 T: ≤1600 kPa (70 °C)
16.	Density and/or relative density	no data available for the mixture MOL-Process O 15 process and spindle oil: 0.845 – 0.865 g/cm^3 (15 °C) (MSZ EN ISO 12185) Copper paste: ca. 900 kg/m^3 (21 °C) PB 4.2 T: ≥0.505 g/cm^3 (50 °C)
17.	Relative vapour density	no data*
18.	Particle characteristics	no data*

9.2. Other information:

9.2.1. Information with regard to physical hazard classes:

No further data available or not applicable for the product.

9.2.2. Other safety characteristics:

Pour point:
MOL-Process O 15 process and spindle oil:
-15 °C (MSZ ISO 3016)
Heating value:
MOL-Process O 15 process and spindle oil:
informative data: 38,000 kJ/kg

*: 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:**
No reactivity known.

10.2. **Chemical stability:**
Stable under normal conditions.

10.3. **Possibility of hazardous reactions:**
No hazardous reactions known.

10.4. **Conditions to avoid:**
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on naked flames or other sources of ignition.
Do not pierce or burn, even after use.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F.
Take measures to prevent electrostatic charges.

10.5. **Incompatible materials:**
Strong oxidizing agents.
Information about the components:
PB 4.2 T: May form explosive mixtures with nitrates and other oxidizing agents (e.g. chlorates, perchlorates, liquid oxygen).

10.6. **Hazardous decomposition products:**
In case of fire, toxic gases may be released: CO, CO_2, various hydrocarbons, aldehydes and carbon black.

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: Based on available data, the classification criteria are not met.
STOT-repeated exposure: Based on available data, the classification criteria are not met.
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:**
Acute toxicity:
Due to lack of data, the classification criteria are not met.
Information about the components:
MOL-Process O 15 process and spindle oil:
Acute toxicity:
LD50 (oral, rat): >2000 mg/kg
LD50 (dermal, rabbit): >2000 mg/kg
May be fatal if swallowed and enters airways.
Prolonged and/or repeated exposure may cause irritation to skin or eyes, depending on individual sensitivity.
PB 4.2 T:
Propane (CAS: 74-98-6):
Inhalation, rat: 1443 mg/l (literature data)
Butane (CAS: 106-97-8):
Inhalation, rat: 658 mg/l (literature data)
Isobutane (CAS: 75-28-5):
Inhalation, mouse: 974 mg/l (literature data)
Copper paste:
Inhalation: Inhalation of large amounts of vapour may irritate the upper respiratory tract.
Ingestion: May irritate the digestive tract. Nausea, vomiting, diarrhoea.

Information about the mixture:
Skin corrosion/irritation:
Non-irritating. Risk of freezing/burns (due to aerosol formulation).
Copper paste: If the skin surface is exposed to a high-pressure jet of liquid, the product may penetrate into the body, which can cause serious damage even without symptoms.
Serious eye damage/irritation: Non-irritating. Risk of freezing/burns (due to aerosol formulation).
Respiratory or skin sensitisation: Non-toxic, but dangerous due to aspheric effect (lack of oxygen). May cause narcotic effects if inhaled in high concentrations.
Germ cell mutagenicity: Due to lack of data, the classification criteria are not met.
Carcinogenicity: Due to lack of data, the classification criteria are not met.
Reproductive toxicity: Due to lack of data, the classification criteria are not met.
STOT-single exposure: Vapours may cause drowsiness or dizziness.
STOT-repeated exposure: Due to lack of data, the classification criteria are not met.
Aspiration hazard: Ingestion and aspiration of the product is unlikely due to aerosol formulation.

11.1.3. Information on likely routes of exposure:
Inhalation, skin contact, eye contact.
Ingestion is unlikely.

11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:
No data available.

11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:
No data available.

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: Based on available data, does not contain endocrine disruptors.
Other information:
No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:
Acute effect: Very toxic to aquatic life.
Chronic effect: Harmful to aquatic life with long lasting effects.
Do not let into bodies of water, sewage system or soil.
Information about the components:
Components of PB 4.2 T:
Butane (CAS: 106-97-8):
LC50 (fish): 24.11 mg/l (literature data)
LC50 (other aquatic organisms): 14.22 mg/l (literature data)
EC50 (algae, 96 h): 7.71 mg/l (literature data)
Isobutane (CAS: 75-28-5):
LC50 (fish): 27.98 mg/l (literature data)
LC50 (other aquatic organisms): 16.33 mg/l (literature data)
EC50 (algae, 96 h): 89.57 mg/l (literature data)
Propane (CAS: 74-98-6):
LC50 (fish): 49.47 mg/l (literature data)
LC50 (other aquatic organisms): 27.14 mg/l (literature data)
EC50 (algae, 72 h): 11.89 mg/l (literature data)

12.2. Persistence and degradability:
No data available.

12.3. Bioaccumulative potential:
No data available about the product.
Information about the components:
Propane (CAS: 74-98-6): ≤ 2.8 (literature data)
Butane (CAS: 106-97-8): ≤ 2.8 (literature data)
Isobutane (CAS: 75-28-5): ≤ 2.8 (literature data)

12.4. **Mobility in soil:**
Copper paste:
Soil: Adsorbs into soil particles and loses its mobility.
Air: Evaporates slightly.
Water: Insoluble, spreads on the surface of water.
MOL-Process O 15 process and spindle oil:
Soil: Mineral oil floats on water. It adsorbs on soil particles and loses its mobility.
Water: Floats on water.

12.5. **Results of PBT and vPvB assessment:**
The product does not meet the criteria for PBT or vPvB substances.

12.6. **Endocrine disrupting properties:**
Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.

12.7. **Other adverse effects:**
Information about the components:
Copper paste:
AOX: Does not contain.
MOL-Process O 15 process and spindle oil:
Large amounts of the spilled mineral oil can be dangerous to the environment as it forms a film on the water surface, blocking the possibility of oxygen entry.
Water hazard class (WGK, German regulation, self-classification): 1 – slightly hazardous for water.

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 local regulations.
List of Waste Code:
16 05 04* gases in pressure containers (including halons) containing hazardous substances
*: Hazardous waste.
The classification of the product into the appropriate waste group, subgroup and waste type depends on its use. The waste generated can be classified into several different main groups according to the properties of the waste, taking into account the relevant regulations.

13.1.2. **Information regarding the disposal of the packaging:**
Dispose of in accordance with local regulations.

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:**
ADR/RID: UN 1950

14.2. **UN proper shipping name:**
ADR/RID: AEROSOLS, flammable

14.3. **Transport hazard class(es):**
ADR/RID:
Class: 2
Classification code: 5F
Labels: 2.1
Transport category (Tunnel restriction code): 2 (D)

14.4. **Packing group:**
No packing group.

14.5. **Environmental hazards:**
Environmentally hazardous.

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

COMMISSION DIRECTIVE (EU) No 2013/10 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

15.2. **Chemical safety assessment:** 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 (02. 06. 2022, Version: 8, 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)
Hazardous to the aquatic environment – Acute Hazard, Category 1 – H400	Based on calculation method
Hazardous to the aquatic environment – Chronic Hazard, Category 3 – H412	Based on calculation method

Relevant hazard statements (code and full text) of Sections 2 and 3:
H220 – Extremely flammable gas.
H222 – Extremely flammable aerosol.
H229 – Pressurised container: May burst if heated.
H280 – Contains gas under pressure; may explode if heated.
H302 – Harmful if swallowed.
H304 – May be fatal if swallowed and enters airways.
H400 – Very toxic to aquatic life.
H411 – Toxic to aquatic life with long lasting effects.
H412 – Harmful to aquatic life with long lasting effects.

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.