



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

1.1 Product identifier

Trade name: UNI 400 ml Aerosoldose

UFI: KHFO-WONH-P00K-M505

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

General use: Rust remover

1.3 Details of the supplier of the safety data sheet

Company name: EUROTECH Maier Ernst GmbH

Street/POB-No.: Herrschaftswiesen 5

Postal Code, city: AT-6842 Koblach

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E-mail: office@eurotech.at

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Department responsible for information:

Telephone: +43 (0)5523 53852, Email: office@eurotech.at

1.4 Emergency telephone number

GIZ-Nord, Göttingen**Telephone: +49 551-19240**

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Aerosol 1; H222; H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Eye Irrit. 2; H319 Causes serious eye irritation.

Skin Sens. 1; H317 May cause an allergic skin reaction.

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

(EUH066) Repeated exposure may cause skin dryness or cracking.

2.2 Label elements

Labelling (CLP)



Signal word:

Danger

Hazard statements:

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

H412

Harmful to aquatic life with long lasting effects.

EUH066

Repeated exposure may cause skin dryness or cracking.



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.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection.
	P302+P352	IF ON SKIN: Wash with plenty of water/soap.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P308+P313	IF exposed or concerned: Get medical advice/attention.
	P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
	P501	Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling: Contains calcium sulfonate and orange terpenes.

2.3 Other hazards

Inhalation causes narcotic effects/intoxication. Asphyxiant in high concentrations.

Exposure to temperatures exceeding 50 °C will increase pressure: resulting in danger of bursting or explosion.

With air, vapours form potentially explosive mixtures, which are heavier than air.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Blend of active ingredients with propellant



Hazardous ingredients:

Identifiers	Designation Classification	Content
EC No. 265-150-3 CAS 64742-48-9	Naphtha (petroleum), hydrotreated heavy, pure Asp. Tox. 1; H304. (EUH066).	25 - 50 %
EC No. 271-781-5 CAS 68608-26-4	Sodium sulphonate Skin Irrit. 2; H315. Eye Dam. 1; H318. Aquatic Chronic 4; H413.	< 3 %
EC No. 232-433-8 CAS 8028-48-6	Orange terpenes Flam. Liq. 3; H226. Skin Irrit. 2; H315. Skin Sens. 1; H317. Aquatic Acute 1; H400. Aquatic Chronic 1; H410.	< 2 %
EC No. 263-093-9 CAS 61789-86-4	Sulfonic acids, petroleum, calcium salts Eye Irrit. 2; H319. Skin Sens. 1; H317. Aquatic Chronic 4; H413.	< 1 %
EC No. 201-142-8 CAS 78-78-4	i-Pentane Flam. Liq. 1; H224. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411. (EUH066).	< 1 %
EC No. 200-827-9 CAS 74-98-6	Propane Flam. Gas 1; H220. Press. Gas (Comp.); H280.	10 - 25 %
EC No. 203-448-7 CAS 106-97-8	n-Butane, pure Flam. Gas 1; H220. Press. Gas (Liq.); H280.	10 - 25 %
EC No. 200-857-2 CAS 75-28-5	Isobutane, pure Flam. Gas 1; H220. Press. Gas (Comp.); H280.	10 - 25 %

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	Seek medical assistance when anyone has symptoms apparently due to inhalation or contact with skin or eyes.
In case of inhalation:	Move victim to fresh air; if necessary, provide artificial respiration or oxygen. If the casualty has difficulty breathing, call a doctor immediately. If victim is at risk of losing consciousness, position and transport on their side.
Following skin contact:	Change contaminated clothing. After contact with skin, wash immediately with plenty of water. In case of skin reactions, consult a physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
After swallowing:	Swallowing is not regarded as a possible way of exposition.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: In case of fire, use sand, carbon dioxide or extinguishing powder. Never use water.

Extinguishing media which must not be used for safety reasons:

Water

5.2 Special hazards arising from the substance or mixture

Extremely flammable aerosol. With air, vapours form potentially explosive mixtures, which are heavier than air. Beware of reignition.

In case of fire may be liberated: Sulphur oxides, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Heating causes rise in pressure with risk of bursting.

Cool endangered containers with water spray and, if possible, remove from danger zone.

In case of fire and/or explosion do not breathe fumes. Do not allow fire water to penetrate into surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Keep unprotected people away.

Avoid contact with the substance. Wear suitable protective clothing.

Do not breathe vapour/aerosol. Provide adequate ventilation.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

If necessary notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Take up with non-flammable, liquid binding material (e.g. sand/earth/diatomaceous earth/vermiculit) and perform disposal according to instructions. Thoroughly clean surrounding area.

Additional information:

Use explosion-proof equipment and non-sparking tools/utensils.

Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling:

Provide good ventilation and/or an exhaust system in the work area.

Avoid contact with skin and eyes. Do not breathe vapour/aerosol.

Wear appropriate protective equipment.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on naked flames or any incandescent material.

Use only non-sparking tools.



7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.
Protect from heat and direct sunlight.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.
Do not store together with combustible or self-igniting materials or any highly flammable solids.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
78-78-4	i-Pentane	Europe: IOELV: TWA Ireland: 8 hours	3000 mg/m ³ ; 1000 ppm 3000 mg/m ³ ; 1000 ppm
106-97-8	n-Butane, pure	Ireland: 8 hours	1000 ppm
75-28-5	Isobutane, pure	Ireland: 15 minutes	1000 ppm

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection: Protective gloves according to EN 374.
Glove material: Nitrile rubber
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
Keep away from heat sources, sparks and open flames. Use only non-sparking tools.
Do not breathe vapour/aerosol. Use only in well-ventilated areas.
When using do not eat, drink or smoke.
Change contaminated clothing.
Wash hands before breaks and after work.
Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa Form: Aerosol
Colour: brownish
Odour: characteristic
Odour threshold: No data available



Melting point/freezing point:	No data available
Initial boiling point and boiling range:	(Propane) -42 °C
Flammability:	Extremely flammable.
Upper/lower flammability or explosive limits:	LEL (Lower Explosion Limit): 1.50 Vol-% UEL (Upper Explosive Limit): 10.90 Vol-%
Flash point/flash point range:	approx. -80 °C
Auto-ignition temperature:	> 200 °C
Decomposition temperature:	No data available
pH:	No data available
Viscosity, kinematic:	No data available
Water solubility:	practically insoluble
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	No data available
Density:	at 20 °C: (without propellant) 0.815 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

9.2 Other information

Explosive properties:	Product is not explosive. Potentially explosive vapour/air mixtures may form.
Oxidizing characteristics:	No data available
Auto-ignition temperature:	not self-igniting
Evaporation rate:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Extremely flammable aerosol.
Vapours can form explosive mixtures with air.

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

Container under pressure.
Heating will lead to pressure increase: Danger of bursting and explosion.

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.
Protect from direct exposure to sunlight and temperatures exceeding 50 °C.

10.5 Incompatible materials

Oxidising agent

10.6 Hazardous decomposition products

	In case of fire may be liberated: Sulphur oxides, carbon monoxide and carbon dioxide.
Thermal decomposition:	No data available



SECTION 11: Toxicological information

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

Toxicological effects:

- Acute toxicity (oral): Lack of data.
- Acute toxicity (dermal): Lack of data.
- Acute toxicity (inhalative): Lack of data.
- Skin corrosion/irritation: Lack of data.
- Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.
- Sensitisation to the respiratory tract: Lack of data.
- Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.
- Germ cell mutagenicity/Genotoxicity: Lack of data.
- Carcinogenicity: Lack of data.
- Reproductive toxicity: Lack of data.
- Effects on or via lactation: Lack of data.
- Specific target organ toxicity (single exposure): Lack of data.
- Specific target organ toxicity (repeated exposure): Lack of data.
- Aspiration hazard: Lack of data.

11.2 Information on other hazards

Endocrine disrupting properties: No data available

Symptoms

In case of inhalation:
Inhalation causes narcotic effects/intoxication. Asphyxiant in high concentrations.
In case of prolonged exposure: Nausea, drowsiness, headache, agitation, fatigue, dizziness, unconsciousness.
After contact with skin: May cause irritations.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.
In case of spills of large quantities: Danger to drinking water.



SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 16 05 04* = Gases in pressure containers (including halons) containing hazardous substances

* = Evidence for disposal must be provided.

Recommendation: This material and its container must be disposed of as hazardous waste. Do not dispose of with household waste. Discharge into the environment must be avoided. Do not open with force or incinerate, even when empty.

Package

Waste key number: 15 01 10* = packaging containing residues of or contaminated by dangerous substances.

* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation. Empty carefully and completely, if possible.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, IMDG, IATA-DGR: UN 1950

14.2 UN proper shipping name

ADR/RID, IMDG: UN 1950, AEROSOLS

IATA-DGR: UN 1950, AEROSOLS, FLAMMABLE

14.3 Transport hazard class(es)

ADR/RID: Class 2, Code: 5F

IMDG: Class 2, Subrisk -, see SP63

IATA-DGR: Class 2.1



14.4 Packing group

ADR/RID, IMDG, IATA-DGR: not applicable

14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant: no

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board: RID: Kemmler-number 23, UN number UN 1950

Hazard label: 2.1

Special Provisions: 190 327 344 625

Limited quantities: 1 L

EQ: E0

Package - Instructions: P207 LP200

Package - Special Provisions: PP87 RR6 L2

Special provisions for packing together: MP9

Tunnel restriction code: D

**Sea transport (IMDG)**

EmS:	F-D, S-U
Special Provisions:	63 190 277 327 344 381 959
Limited quantities:	See SP277
Excepted quantities:	E0
Package - Instructions:	P207, LP200
Package - Provisions:	PP87, L2
IBC - Instructions:	-
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	-
Tank instructions - Provisions:	-
Stowage and handling:	SW1 SW22
Segregation:	SG69
Properties and observations:	-
Segregation group:	none

Air transport (IATA)

Hazard label:	Flamm. gas
Excepted Quantity Code:	E0
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft:	Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only:	Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special Provisions:	A145 A167 A802
Emergency Response Guide-Code (ERG):	10L

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations - EC member states**

Volatile organic compounds (VOC):

approx. 86.7 % by weight = 706.6 g/L



Labelling of packaging with <= 125mL content



Signal word:

Danger

Hazard statements:

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

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.
P280 Wear protective gloves/protective clothing/eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water/soap.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container to hazardous or special waste collection point.

Further regulations, limitations and legal requirements:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]
Physical hazards: Code P3a, Quantity threshold 150 000 kg / 500 000 kg

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H220 = Extremely flammable gas.
H222 = Extremely flammable aerosol.
H224 = Extremely 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.
H315 = Causes skin irritation.
H317 = May cause an allergic skin reaction.
H318 = Causes serious eye damage.
H319 = Causes serious eye irritation.
H336 = May cause drowsiness or dizziness.
H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.
H411 = Toxic to aquatic life with long lasting effects.
H412 = Harmful to aquatic life with long lasting effects.
H413 = May cause long lasting harmful effects to aquatic life.
EUH066 = Repeated exposure may cause skin dryness or cracking.

Reason of change:

General revision

Date of first version:

20/12/2001

Department issuing data sheet: see section 1: Department responsible for information



Abbreviations and acronyms: 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
Aerosol: Aerosol
Aquatic Acute: Hazardous to the aquatic environment - acute
Aquatic Chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
Asp. Tox.: Aspiration toxicity
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EN: European Standard
EQ: Excepted quantities
EU: European Union
Eye Dam.: Eye damage
Eye Irrit.: Eye irritation
Flam. Gas: Flammable gases
Flam. Liq.: Flammable liquid
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
Press. Gas: Gases under pressure
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.: Skin irritation
Skin Sens.: Skin sensitisation
STOT SE: Specific target organ toxicity - single exposure
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.