



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 10/4/2017
Version: 6
Language: en-GB,IE
Date of print: 18/4/2017

Kupferspray 400ml

Material number AKUS.D400

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

1.1 Product identifier

Trade name: Kupferspray 400ml

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

General use: Lubricants

1.3 Details of the supplier of the safety data sheet

Company name: GLUETEC Industrieklebstoffe GmbH & Co. KG

Street/POB-No.: Am Biotop 8a

Postal Code, city: 97259 Greußenheim
Germany

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Dept. responsible for information:

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1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany,
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.

Skin Irrit. 2; H315 Causes skin irritation.

Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.

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

2.2 Label elements

Labelling (CLP)



Signal word:

Danger

Hazard statements:

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H315

Causes skin irritation.

H412

Harmful to aquatic life with long lasting effects.



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Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
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 vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water/soap.
P331	Do NOT induce vomiting.
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 Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics and Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane.

2.3 Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may lead to a narcotic effect.

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: Mixture of the substances listed below with non-hazardous additions.



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Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119475515-33-xxxx EC No. 927-510-4 CAS 64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	< 10 %	Flam. Liq. 2; H225. Skin Irrit. 2; H315. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411.
REACH 01-2119475514-35-xxxx EC No. 921-024-6 CAS -	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	< 10 %	Flam. Liq. 2; H225. Skin Irrit. 2; H315. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411.
EC No. 200-857-2 CAS 75-28-5	Isobutane	25 - 50 %	Flam. Gas 1; H220. Compr. Gas; H280.
EC No. 200-827-9 CAS 74-98-6	Propane	10 - 25 %	Flam. Gas 1; H220. Compr. Gas; H280.
EC No. 203-448-7 CAS 106-97-8	n-Butane, pure	2.5 - 10 %	Flam. Gas 1; H220. Compr. Gas; H280.

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

Additional information: Contains copper. The maximum workplace exposure limits are, where necessary, listed in section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information: IF exposed or concerned: Get medical advice/attention. First aider: Pay attention to self-protection!
- In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical aid in case of troubles.
- Following skin contact: Wash with generous amount of water and soap. Take off immediately all contaminated clothing and wash it before reuse. 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. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.
- After swallowing: Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways. Causes skin irritation.
Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher doses may lead to a narcotic effect.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
When swallowed and vomited immediately, aspiration into the lungs may occur resulting in chemical pneumonia or suffocation.
Symptoms may occur with delay.



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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Foam, extinguishing powder, carbon dioxide, water fog.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Extremely flammable aerosol. Pressurised container: May burst if heated.

May form dangerous gases and vapours in case of fire. Furthermore, there may develop:

Aldehydes, 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. Do not breathe fumes.

Additional information:

Hazchem-Code: -

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

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

Move undamaged containers from immediate hazard area if it can be done safely.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so.

Provide adequate ventilation. Do not breathe vapour/aerosol. Avoid contact with skin, eyes, and clothing.

Wear appropriate protective equipment. Keep unprotected people away. Take off immediately all contaminated clothing and wash it before reuse.

Cordon off downwind area at risk and warn inhabitants.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. Danger of explosion!

In case of release, notify competent authorities.

6.3 Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

Thoroughly clean surrounding area.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Additional information:

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



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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 adequate ventilation, and local exhaust as needed. Do not breathe vapour/aerosol. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.

Use only non-sparking tools. Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.

Keep container dry. Keep only in the original container.

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

Store containers in upright position.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
7440-50-8	Copper	Great Britain: WEL-STEL	2 mg/m ³ Dusts and mist calculated as Cu
		Great Britain: WEL-TWA	0.2 mg/m ³ Smoke
		Great Britain: WEL-TWA	1 mg/m ³ Dusts and mist calculated as Cu
		Ireland: 15 minutes	2 mg/m ³ Dusts and mist calculated as Cu
		Ireland: 8 hours	0.2 mg/m ³ Smoke
		Ireland: 8 hours	1 mg/m ³ Dusts and mist calculated as Cu
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Great Britain: WEL-TWA	1200 mg/m ³ (> or = C7, Normal and branched chain alkanes)
		Great Britain: WEL-TWA	800 mg/m ³ (> or = C7, Cycloalkanes)
74-98-6	Propane	Ireland: 8 hours	1000 ppm
106-97-8	n-Butane, pure	Great Britain: WEL-STEL	1810 mg/m ³ ; 750 ppm (Carc, only applies if Butane contains more than 0.1% of buta-1,3-diene)
		Great Britain: WEL-TWA	1450 mg/m ³ ; 600 ppm (Carc, only applies if Butane contains more than 0.1% of buta-1,3-diene)
		Ireland: 8 hours	1000 ppm

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

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 - Layer thickness: ≥ 0.45 mm
Breakthrough time: ≥ 240 min
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.



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General protection and hygiene measures:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not pierce or burn, even after use.
Provide adequate ventilation, and local exhaust as needed. Avoid breathing vapours. Do not get in eyes, on skin, or on clothing.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse.
Contaminated work clothing should not be allowed out of the workplace.
Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

Environmental exposure controls

Do not allow to enter into ground-water, surface water or drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Form: Aerosol Colour: copper
Odour:	similar to benzine
Odour threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	≤ 0 °C
Flash point/flash point range:	not applicable
Evaporation rate:	No data available
Flammability:	Extremely flammable aerosol.
Explosion limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	at 20 °C: 0.65421 g/mL
Water solubility:	not or slightly miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	Product is not explosive. Potentially explosive vapour/air mixtures may form.
Oxidizing characteristics:	No data available

9.2 Other information

Ignition temperature: > 200 °C



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SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Pressurised container: May burst if heated.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

Aldehydes, carbon monoxide and carbon dioxide.

Thermal decomposition: No data available



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

ATEmix calculated (Vapours): > 20 mg/L

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

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

Germ cell mutagenicity/Genotoxicity: 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.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Asp. Tox. 1; H304 = May be fatal if swallowed and enters airways.

Other information: Information about product:

LC50 Rat, inhalative: 100 mg/L/4h (ATE)

Information about Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

LD50 Rat, inhalative: > 5840 mg/kg LD50 Rat, dermal: > 2920 mg/kg LC50 Rat, inhalative: > 23.3 mg/L/4h

Information about Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

LD50 Rat, inhalative: > 5840 mg/kg LD50 Rat, dermal: > 2920 mg/kg LC50 Rat, inhalative: < 25.2 mg/L/4h

Information about Isobutane:

LC50 Rat, inhalative: > 50 mg/L/4h

Information about Propane:

LC50 Rat, inhalative: 20 mg/L/4h

Information about butane:

LC50 Rat, inhalative: 658 mg/L/4h

Symptoms

Cough, Dizziness, Nausea, Headache, shortage of breath, drowsiness

In case of inhalation: Caution if victim vomits: Risk of aspiration!



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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.
Information about Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics and Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 3 mg/L/48h

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 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.
Avoid spills and leaks. Very small amounts contaminates 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: Special waste. Do not open with force or incinerate, even when empty.
Dispose of waste according to applicable legislation.
Do not dispose of with household waste.

Contaminated packaging

Waste key number: 15 01 04 = Metallic packaging
Recommendation: Empty carefully and completely, if possible.
Dispose of waste according to applicable legislation. Handle empty containers with care.
Incineration may cause explosion.

SECTION 14: Transport information

14.1 UN number

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



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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, IATA-DGR: not applicable
IMDG: -

14.5 Environmental hazards

Marine pollutant: no

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board: ADR: UN number UN 1950
RID: Kemmler-number 23, UN number UN 1950
Hazard label: 2.1
Special provisions: 190 327 344 625
Limited quantities: 1 L
EQ: E0
Contaminated packaging - Instructions: P207 LP200
Contaminated packaging - 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
Contaminated packaging - Instructions: P207, LP200
Contaminated packaging - 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



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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 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations - Great Britain

Hazchem-Code: -
No data available

National regulations - EC member states

Volatile organic compounds (VOC):
71.4 % by weight = 467.4 g/L

Labelling of packaging with <= 125mL content



Signal word: **Danger**

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

Precautionary statements:
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
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 vapours/spray.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.



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SECTION 16: Other information

Further information

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

- H220 = Extremely flammable gas.
- H222 = Extremely flammable aerosol.
- H225 = Highly 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.
- H336 = May cause drowsiness or dizziness.
- H411 = Toxic to aquatic life with long lasting effects.
- H412 = Harmful to aquatic life with long lasting effects.

Reason of change: Changes in section 2: Classification, labelling
Changes in section 3: Change of composition
General revision

Date of first version: 23/5/2013

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

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.