

Date of issue: 22.9.2015	Trade name:	Page: 1/8
Reviewed on:	COPPER SPRAY	Version: 1.0

1. Section 1. Identification of the substance/mixture and of the company/undertaking:

- 1.1. Product identifier:
Trade name: **COPPER SPRAY**
Product code: **1 35006**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:
Uses of the mixture: Copper-based Lubricant
Sector of use category (SU):
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
Process category (PROC):
PROC7 Industrial spraying
PROC11 Non industrial spraying
- 1.3. Details of the supplier of the safety data sheet:
Identification of manufacturer/Supplier:
RETECH, s.r.o.
Vackova 1541/4
150 00 Praha 5 - Stodůlky
Czech Republic
Telephone number/Fax: +420 327 596 128, +420 327 596 428
E-mail: info@retech.cz
- 1.4. Emergency telephone number: RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic
Telephone number: +420 327 596 128 (7.30-16.00 hour)
Toxikologické informační středisko (Toxicology Information Centre),
Na bojišti 1, 128 08 PRAHA 2, Czech Republic
Telephone number: +420 224 919 293, +420 224 915 402 (24 hours a day)

2. Section 2. Hazard identification:

- 2.1. Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008 [CLP]:
Flam. Aerosol 1 H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements:

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



Signal Word: **Danger**

Hazard Statements:

- H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H411 Toxic 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.

Date of issue: 22.9.2015	Trade name:	Page: 2/8
Reviewed on:	COPPER SPRAY	Version: 1.0

P103 Read label before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn, even after use.
P211 Do not spray on an open flame or other ignition source.
P271 Use only outdoors or in a well-ventilated area.
P261 Avoid breathing vapours/spray.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P304+ P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
P331 Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P403 Store in a well-ventilated place.
P501 Dispose of contents/container in accordance with national regulation.

Contained dangerous substances:
64742-49-0 Naphtha (petroleum), hydrotreated light

2.3. Other hazards:
Results of PBT and vPvB assessment:
PBT: Not applicable
vPvB: Not applicable

3. Section 3. Composition/information on ingredients:

3.2. Mixtures:
Description of the mixture: Mixture of active ingredients with propellant

Hazardous ingredients:

CAS: 64742-49-0 EC nr.: 921-024-6 Reg.nr.: 01-2119475514-35, 01-2119475515-33	Naphtha (petroleum), hydrotreated light (containing < 0.1 % benzene) Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	25-<50 %
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	Butane (containing <0.1 % butadiene) Flam. Gas 1, H220; Press. Gas, H280	10-<25 %
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	Propane Flam. Gas 1, H220; Press. Gas, H280	10-<25 %
	n-Phenyl Benzolamide Derivates Aquatic Chronic 2, H411	0,3-<1 %

For full text of H-statements: see SECTION 16.

4. Section 4. First aid measures:

4.1. Description of first aid measures:
After inhalation: Move the exposed person to fresh air at once.
In case of unconsciousness place patient stably in side position for transportation.
After skin contact: Immediately wash with water and soap and rinse thoroughly.
After eye contact: Remove contact lenses, if present and easy to do.
Rinse cautiously with water for several minutes.
Consult a doctor.
After swallowing: Do not induce vomiting.
Immediately call for a doctor.

4.2. Most important symptoms and effects, both acute and delayed:
No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed:
No further relevant information available.

Date of issue: 22.9.2015	Trade name:	Page: 3/8
Reviewed on:	COPPER SPRAY	Version: 1.0

<p>5. Section 5. Fire fighting measures:</p> <p>5.1. Extinguishing media: Suitable extinguishing agents: Carbon dioxide (CO₂), fire-extinguishing powder, water spray, alcohol-resistant foam. For safety reasons unsuitable extinguishing agents: Water with full jet.</p> <p>5.2. Special hazards arising from the substance or mixture: No further relevant information available.</p> <p>5.3. Advice for firefighters: Wear protective clothing and self-contained breathing apparatus.</p>																								
<p>6. Section 6. Accidental release measures:</p> <p>6.1. Personal precautions, protective equipment and emergency procedures: Wear protective equipment see Section 8. Keep unprotected persons away. Ensure adequate ventilation.</p> <p>6.2. Environmental precautions: Do not allow to enter sewage system, surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.</p> <p>6.3. Methods and material for containment and cleaning up: Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents. Dispose contaminated material as waste according to Section 13.</p> <p>6.4. Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.</p>																								
<p>7. Section 7. Handling and storage:</p> <p>7.1. Precautions for safe handling: Wear protective equipment see Section 8. Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Measures to prevent fire: Do not spray onto a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.</p> <p>7.2. Conditions for safe storage including any incompatibilities: Technical measures and storage conditions: Observe official regulations on storing packagings with pressurized containers. Requirements for storage rooms and vessels: Store in a cool place. Observe official regulations on storing packagings with pressurized containers. Further information on storage conditions: Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.</p> <p>7.3. Specific end use(s): No further relevant information available.</p>																								
<p>8. Section 8. Exposure controls/personal protection:</p> <p>8.1. Control parameters: Components with limit values that require monitoring at the workplace: WEL (United Kingdom): EH40/2005</p> <table border="1"> <thead> <tr> <th rowspan="2">CAS</th> <th rowspan="2">Substance</th> <th colspan="2">Long-term (8-hr TWA ref. period)</th> <th colspan="2">Short-term (15 minute ref. period)</th> <th rowspan="2">Comments</th> </tr> <tr> <th>ppm</th> <th>mg/m³</th> <th>ppm</th> <th>mg/m³</th> </tr> </thead> <tbody> <tr> <td>106-97-8</td> <td>Butane</td> <td>600</td> <td>1450</td> <td>750</td> <td>1810</td> <td>Carc, (only applies if Butane contains more than 0.1 % of buta-1,3-diene)</td> </tr> </tbody> </table>							CAS	Substance	Long-term (8-hr TWA ref. period)		Short-term (15 minute ref. period)		Comments	ppm	mg/m ³	ppm	mg/m ³	106-97-8	Butane	600	1450	750	1810	Carc, (only applies if Butane contains more than 0.1 % of buta-1,3-diene)
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Date of issue: 22.9.2015	Trade name:	Page: 4/8
Reviewed on:	COPPER SPRAY	Version: 1.0

OEL: 2000/39/EG, 2006/15/EG, 2009/161/EG
Contains no substances with occupational exposure limit values.

DNEL:

64742-49-0 Naphtha (petroleum), hydrotreated light			
Inhalation	Chronic effects systemic	2035 mg/m ³	Workers
	Chronic effects systemic	608 mg/m ³	Consumers
Dermal	Chronic effects systemic	773 mg/kg Body weight/day	Workers
	Chronic effects systemic	699 mg/kg Body weight/day	Consumers
Oral	Chronic effects systemic	699 mg/kg Body weight/day	Consumers

Additional information: The lists that were valid during the compilation were as basis.

8.2. Exposure controls:

Measures to prevent exposure:

General protective measures: Ensure good ventilation/exhaustion at the workplace.
Store away from foodstuffs, beverages and feed.
Take off immediately all contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid breathing vapours/spray.
Avoid skin and eye contact.

Personal protection equipment:

Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.
In case of brief exposure or low pollution use respiratory filter device.
Filter, type AX/P2
In case of intensive or longer exposure use self-contained respiratory protective device.

Eye protection: Tightly sealed goggles

Protection of hands: Protective gloves
Solvent resistant gloves
The final selection of the glove material must be carried out on the basis of penetration times, permeation rates and degradation.
Material of gloves: Nitrile rubber
Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Protection of skin: Protective suit.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Form:	Aerosol
Colour:	Clear
Odour:	Characteristic (solvent-like)
Odour threshold:	Not determined
Value pH at 20 °C:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point/boiling range:	-44 °C
Flash point:	-97 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Explosive properties:	The product is not explosive. However, formation of explosive air/steam mixtures is possible.
Explosive limits:	
- lower:	0.8 vol. %
- upper:	10.9 vol. %
Vapour pressure at 20°C:	4 Bar
Vapour density at 20 °C:	Not determined

Date of issue: 22.9.2015	Trade name:	Page: 5/8
Reviewed on:	COPPER SPRAY	Version: 1.0

Density at 20°C:	0.721 g/cm ³
Relative density:	Not determined
Solubility in/miscibility with:	
– water	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined
Ignition temperature:	200 °C
Decomposition temperature:	Not determined
Self-igniting:	The product is not selfigniting.
Viscosity:	Not determined
Oxidising properties:	Not determined
9.2. Other information:	
Organic solvents:	65.0 %
Solid content:	35.0 %
VOC (EC):	468.7 g/l

10. Section 10. Stability and reactivity:	
10.1. Reactivity:	No further relevant information available.
10.2. Chemical stability:	No decomposition if used according to specifications.
10.3. Possibility of hazardous reactions:	
	No dangerous reactions known.
10.4. Conditions to avoid:	No further relevant information available.
10.5. Incompatible materials:	No further relevant information available.
10.6. Hazardous decomposition products:	
	No dangerous decomposition products known.

11. Section 11. Toxicological information:	
11.1. Information on toxicological effects:	
Acute toxicity:	
LD/LC50 values relevant for classification:	
64742-49-0 Naphtha (petroleum), hydrotreated light	
Oral LD50 Rat	>5840 mg/kg
Dermal LD50 Rabbit	>2920 mg/kg
Inhalativ LC50/4h Rat	>25 mg/l
Skin corrosion/irritation:	Irritant to skin and mucous membranes.
Serious eye damage/irritation:	No irritating effect.
Respiratory or skin sensitization:	No sensitizing effect known.
Germ cell mutagenicity:	No further relevant information available.
Carcinogenicity:	No further relevant information available.
Reproductive toxicity:	No further relevant information available.
STOT-single exposure:	May cause drowsiness or dizziness.
STOT-repeated exposure:	No further relevant information available.
Aspiration hazard:	May be fatal if swallowed and enters airways.
Other information:	No further relevant information available.

12. Section 12. Ecological information:	
12.1. Toxicity:	
Aquatic toxicity:	
64742-49-0 Naphtha (petroleum), hydrotreated light	
Fish: LL50 /96h Onchorhynchus mykiss	11.4 mg/l
Invertebrates: EL50 /48h Daphnia magna	3 mg/l
LOEC /21 dní Daphnia magna	0.32 mg/l
NOEC /21 dní Daphnia magna	0.17 mg/l

Date of issue: 22.9.2015	Trade name:	Page: 6/8
Reviewed on:	COPPER SPRAY	Version: 1.0

Algae	EL50 /72h	Pseudokirchneriella subcapitata	30-100 mg/l
	NOELR /72h	Pseudokirchneriella subcapitata	3 mg/l

- 12.2. Persistence and degradability: No further relevant information available.
- 12.3. Bioaccumulative potential: No further relevant information available.
- 12.4. Mobility in soil: No further relevant information available.
- Ecotoxic effects: Remark: Toxic for fish.
- Additional ecological information:
- General notes: Water danger class 2 (German Regulation) (Self-assessment):
hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Also toxic for water organisms.
- 12.5. Results of PBT and vPvB assessment:
PBT: Not applicable
vPvB: Not applicable
- 12.6. Other adverse effects: No further relevant information available.

13. Section 13. Disposal considerations:

- 13.1. Waste treatment methods:
Product: Must not be disposed together with household garbage.
Do not allow product to reach sewage system.
Dispose in safe manner in accordance with local/national regulation.
- Uncleaned packagings: Disposal must be made according to official regulations.

14. Section 14. Transport information:

- 14.1. UN number:
ADR, IMDG, IATA UN 1950
- 14.2. UN proper shipping name:
ADR UN 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
IMDG AEROSOLS (Naphtha (petroleum), hydrotreated light, n-Phenyl Benzamide Derivates), MARINE POLLUTANT
IATA AEROSOLS, flammable
- 14.3. Transport hazard class(es):
ADR
- Class 2 5 F Gases
Hazard label 2.1
IMDG
- Class 2.1
Hazard label 2.1
IMDG
- Class 2.1
Hazard label 2.1
IATA
- Class 2.1
Hazard label 2.1
- 14.4. Packing group:
ADR, IMDG, IATA Void
- 14.5. Environmental hazards: The product contains environmentally hazardous substances:
Naphtha (petroleum), hydrotreated light

Date of issue: 22.9.2015	Trade name:	Page: 7/8
Reviewed on:	COPPER SPRAY	Version: 1.0

Marine pollutant:	Yes
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6. Special precautions for user:	Warning: Gases
Danger Code (Kemler):	-
EMS Number:	F-D, S-U
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:	Not applicable
Transport/ Additional information:	
ADR	
Limited quantities (LQ)	1L
Transport category	2
Tunnel restriction code	D
UN "Model Regulation":	UN 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, 2.1

15. Section 15. Regulatory information:

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

Used legislation:
Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended
Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP), as amended
Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Section 16. Other information:

Relevant H-statements (Section 3):
H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
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.

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level
EC-Nr.: EINECS and ELINCS Number
EINECS: European Inventory of Existing Commercial Chemical Substances
EL50: Effective loading rate lethal to 50% of the test population
ELINCS: European List of Notified Chemical Substances
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
LC50: Median concentration lethal to 50 % of a test population
LD50: Median dose lethal to 50 % of a test population
LL50: Lethal loading rate for 50% of the test population
LOEC: Lowest Observed Effect Concentration
NOEC: No Observed Effect Concentration
NOELR: No Observable Effect Loading Rate
OEL: Occupational Exposure Limit
PBT: Persistent, Bioaccumulative, Toxic

Date of issue: 22.9.2015	Trade name:	Page: 8/8
Reviewed on:	COPPER SPRAY	Version: 1.0

STOT: Specific target organ toxicity
TWA: Time weighted average
VOC: Volatile Organic Compounds
vPvB: Very Persistent, Very Bioaccumulative
WEL: Workplace exposure limits
Aquatic Chronic 2: Hazardous to the aquatic environment, category 2
Asp. Tox. 1: Aspiration hazard, category 1
Flam. Aerosol 1: Flammable aerosol, category 1
Flam. Gas 1: Flammable gas, category 1
Flam. Liq. 2: Flammable liquid, category 2
Press. Gas: Gases under pressure
Skin Irrit. 2: Skin irritation, category 2
STOT SE 3: Specific target organ toxicity — single exposure, category 3

The information contained herein is based on our best knowledge and the present legislation. Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

***Compared to the last version the data has been changed.**