

according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

# Copper Lubricant Spray

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

#### 1.1 Product identifier

Trade name: Copper Lubricant Spray

This safety data sheet pertains to the following products:

147707 = Copper Lubricant Spray 408455 = Copper Lubricant Spray

UFI: 6A26-1EUC-V00Q-9ESD

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

General use: Lubricant.

Reserved for industrial and professional use.

#### 1.3 Details of the supplier of the safety data sheet

Company name: Berner Produkten b.v.
Street/POB-No.: Vogelzankweg 175
Postal Code, city: 6374 AC Landgraaf

Netherlands www.berner.nl info@berner.nl +31 45 53 39 133

Department responsible for information:

www

E-mail:

E-mail: Productsafety.Chemicals@berner-group.com

## 1.4 Emergency telephone number

Poisons information service:

National Poisons Information Service (Birmingham Unit): 844 892 0111

Transport:

CONSULTANK Lutz Harder GmbH (Contract Qualisys/Berner) Telephone: +49 (178) 4337434 (from USA: 01149 178 4337434)

# **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.

Water-react. 1; H260 In contact with water releases flammable gases which may ignite spontaneously.

STOT SE 3; H336 May cause drowsiness or dizziness.

Asp. Tox. 1; H304 May be fatal if swallowed and enters airways. Aquatic Chronic 1; H410 Very toxic 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



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Hazard statements: H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H260 In contact with water releases flammable gases which may ignite spontaneously.

H336 May cause drowsiness or dizziness.

Very toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements: 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.
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection.

P302+P335+P334 IF ON SKIN: Brush off loose particles from skin. Immerse in cool water.

P312 Call a POISON CENTER/doctor if you feel unwell.

P391 Collect spillage.

P402+P404 Store in a dry place. Store in a closed container.

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

Special labelling

Text for labelling: Contains:

Pentane

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Paraffin oils (petroleum), catalytic dewaxed heavy

#### 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.

The product is skin resorptive.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

CAS 128-37-0 3,5-Di-tert-butyl-4-hydroxytoluene: list II

# **SECTION 3: Composition/information on ingredients**

3.1 Substances: not applicable

#### 3.2 Mixtures

Chemical characterisation: Blend of active ingredients with propellant.



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Hazardous ingredients

Identifiers	Designation Classification	Content
REACH 01-2119473851-33-xxxx list no. 920-750-0	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	10 - 25 %
	Flam. Liq. 2; H225. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411. (EUH066).	
EC No. 203-692-4 CAS 109-66-0	Pentane	10 - 25 %
	Flam. Liq. 2; H225. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411. (EUH066).	
REACH 01-2119487080-42-xxxx EC No. 265-174-4 CAS 64742-70-7	Paraffin oils (petroleum), catalytic dewaxed heavy	2.5 - 10 %
	Asp. Tox. 1; H304.	
EC No. 231-159-6 CAS 7440-50-8	Copper	< 10 %
	Acute Tox. 4; H302. Acute Tox. 3; H331. Eye Irrit. 2; H319. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. M-factors: Aquatic Chronic 1: M = 10.	
REACH 01-2119474691-32-xxxx EC No. 203-448-7 CAS 106-97-8	n-Butane , <0,1% Butadiene	10 - 25 %
	Flam. Gas 1; H220. Press. Gas (Comp.); H280.	
REACH 01-2119486944-21-xxxx EC No. 200-827-9 CAS 74-98-6	Propane	10 - 25 %
	Flam. Gas 1; H220. Press. Gas (Comp.); H280.	
REACH 01-2119485395-27-xxxx	i-Butane, <0,1% Butadiene	2.5 - 10 %
EC No. 200-857-2 CAS 75-28-5	Flam. Gas 1; H220. Press. Gas (Comp.); H280.	

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

Additional information: Contains: 3,5-Di-tert-butyl-4-hydroxytoluene. 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 medical advice is needed, have product container or label at hand.

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

breathing. Seek medical treatment in case of troubles.

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. Take off 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. Subsequently consult an

ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an

unconscious person. Do not induce vomiting. Immediately get medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

Repeated exposure may cause skin dryness or cracking.



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## 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: Water mist, alcohol resistant foam, Extinguishing powder, Carbon dioxide.

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:

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: Hazchem-Code: -

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

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.

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours/spray. Avoid contact with the substance.

In case of leakage, eliminate all ignition sources. Provide adequate ventilation.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before

reuse. Keep unprotected people away.

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.

Do not remove residual product with water and detergent.

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

#### 6.4 Reference to other sections

Refer additionally to section 8 and 13.



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# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Avoid breathing vapours/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply emergency spray.

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. When handling larger quantities, take precautionary measures against electrostatic charging.

#### 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. Keep in a cool place.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

#### 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	Туре	Limit value
-	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Great Britain: WEL-TWA	1200 mg/m³ (> or = C7, Normal and branched chain alkanes)
	•	Great Britain: WEL-TWA	800 mg/m³ (> or = C7, Cycloalkanes)
109-66-0	Pentane	Great Britain: WEL-TWA	1800 mg/m³; 600 ppm
7440-50-8	Copper	Great Britain: WEL-STEL Great Britain: WEL-TWA Great Britain: WEL-TWA	2 mg/m³ (Dusts and mist calculated as Cu) 0.2 mg/m³ (Smoke) 1 mg/m³ (Dusts and mist calculated as Cu)
106-97-8	n-Butane , <0,1% Butadiene	Great Britain: WEL-STEL	1810 mg/m³; 750 ppm
		Great Britain: WEL-TWA	1450 mg/m³; 600 ppm
128-37-0	3,5-Di-tert-butyl-4- hydroxytoluene	Great Britain: WEL-TWA	10 mg/m³



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DNEL/DMEL: Information about Pentane:

> DNEL consumers, long-term, systemic, oral: 214 mg/kg bw/d DNEL workers, long-term, systemic, dermal: 432 mg/kg bw/d DNEL consumers, long-term, systemic, dermal: 214 mg/kg bw/d DNEL workers, long-term, systemic, inhalative: 3,000 mg/m<sup>3</sup> DNEL consumers, long-term, systemic, inhalative: 643 mg/m<sup>3</sup>

Information about Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

DNEL long-term, consumers, oral, systemic: 699 mg/kg bw/d DNEL long-term, consumers, dermal, systemic: 699 mg/kg bw/d DNEL long-term, workers, dermal, systemic: 773 mg/kg bw/d DNEL long-term, workers, inhalative, systemic: 2,035 mg/m<sup>3</sup> DNEL long-term, consumers, inhalative, systemic: 608 mg/m³

Information about Copper:

DNEL consumers, long-term, systemic, oral: 0.041 mg/kg bw/d DNEL workers, long-term, systemic, dermal: 137 mg/kg bw/d DNEL consumers, short-term, systemic, dermal: 273 mg/kg bw/d

PNEC: Information about Copper:

> PNEC water (freshwater): 0.0078 mg/L PNEC water (marine water): 0.0052 mg/L PNEC sediment (freshwater): 87 mg/kg dw PNEC sediment (marine water): 676 mg/kg dw

PNEC soil: 65,500 mg/kg dw

PNEC sewage treatment plant: 0.23 mg/L

#### 8.2 Exposure controls

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

#### Personal protection equipment

#### Occupational exposure controls

Respiratory protection: In case of inadequate ventilation wear respiratory protection. Respiratory protection must be

worn whenever the WEL levels have been exceeded.

Recommendation: Use combination filter type A2/P2 according to EN 14387. 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.

Protective gloves according to EN 374. Hand protection:

Glove material: Nitrile rubber - Layer thickness: >= 0.5 mm.

Breakthrough time: > 480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eve protection: Tightly sealed goggles according to BS EN ISO 16321-1:2022.

Body protection: Flame retardant, antistatic and chemical resistant protective clothing.

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. Do not spray on an open flame or other ignition source.

Avoid breathing vapours/spray. Do not get in eyes, on skin, or on clothing.

When using do not eat or drink. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling. Take off contaminated clothing and wash it

Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply emergency spray.

#### **Environmental exposure controls**

See subsection 6.2



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# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Appearance: Physical state at 20 °C and 101.3 kPa: liquid

Form: Aerosol

Colour: Varying colours

Odour Characteristic Odour threshold: No data available No data available pH:

No data available Melting point/freezing point: -44.5 °C Initial boiling point and boiling range:

2°C Flash point/flash point range: Evaporation rate: No data available

Flammability

Extremely flammable aerosol.

Explosion limits LEL (Lower Explosion Limit): 0.70 Vol-% UEL (Upper Explosive Limit): 7.00 Vol-%

at 20 °C: 30 hPa Vapour pressure: No data available Vapour density:

0.704 kg/L Density:

Not/slightly miscible Water solubility: Partition coefficient: n-octanol/water No data available

Auto-ignition temperature: Not self-igniting. In contact with water releases flammable gases which may

ignite spontaneously.

Decomposition temperature: No data available

Viscosity, kinematic: at 40 °C: < 20.5 mm<sup>2</sup>/s

Explosive properties: Vapours can form explosive mixtures with air.

Oxidizing characteristics: No data available

9.2 Other information

> 200 °C Ignition temperature 72.4 % Solvent content: Solid content: 78.0 %

# **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.

In contact with water releases flammable gases which may ignite spontaneously.

#### 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.

Protect from moisture contamination.



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## 10.5 Incompatible materials

Water

#### 10.6 Hazardous decomposition products

No decomposition when used properly.

Thermal decomposition: No data available

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Acute toxicity: LD50 Rat, oral: 3483 - 29022 mg/kg

LC50 Rat, inhalative: 59.3 mg/l/4h

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.

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. 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

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): STOT SE 3; H336 = May cause drowsiness or dizziness.

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 Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

LD50 Rat, oral: > 5,840 mg/kg bw LD50 Rabbit, dermal: > 2,920 mg/kg bw LC50 Rat, inhalative: > 23.3 mg/L/4h

Information about Pentane: LD50 Rat, oral: > 5,000 mg/kg

Information about Paraffin oils (petroleum), catalytic dewaxed heavy:

LD50 Rat, oral: > 5,000 mg/kg bw LD50 Rabbit, dermal: > 2,000 mg/kg bw LC50 Rat, inhalative: > 5 mg/L/4h

Information about Copper:

LD50 Rat, oral: 300 - 2,500 mg/kg bw NOAEL Rat, oral: 16.7 mg/kg/d LD50 Rabbit, dermal: > 2,000 mg/kg bw LC50 Rat, inhalative: 5.11 mg/L/4h

#### **Symptoms**

Inhaling can lead to irritations of the respiratory tract and mucous membrane.

Higher doses may lead to a narcotic effect.



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# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Aquatic toxicity: Very toxic to aquatic life with long lasting effects.

Information about Pentane:

Fish toxicity:

LC50 Oncorhynchus mykiss: 4.26 mg/L/96h

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 2.7 mg/L/48h

Algae toxicity:

EC50 Pseudokirchneriella subcapitata (green algae): 10.7 mg/L/72h NOEC Pseudokirchneriella subcapitata (green algae): 2.04 mg/L/72h Information about Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

Fish toxicity:

LC50 Oncorhynchus mykiss: 3 - 10 mg/L/96h NOEC Oncorhynchus mykiss: 0.574 mg/L/28d

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 4.6 - 10 mg/L/48h NOEC Daphnia magna (Big water flea): 1 mg/L/21d

Information about Copper:

Fish toxicity: LC50: 2 mg/L/96h

## 12.2 Persistence and degradability

Further details: Product is not readily biodegradable.

#### 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/Aerosol

\* = Evidence for disposal must be provided.

Recommendation: Do not pierce or burn, even after use.

Special waste. Dispose of waste according to applicable legislation.

Do not dispose of with household waste.



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#### **Package**

Recommendation: Dispose of waste according to applicable legislation.

Empty carefully and completely, if possible. Handle empty containers with care. Incineration

may cause explosion.

# **SECTION 14: Transport information**

#### 14.1 UN number

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

# 14.2 UN proper shipping name

ADR/RID: UN 1950, AEROSOLS

IMDG: UN 1950, AEROSOLS (Pentane

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics), MARINE POLLUTANT

IATA-DGR: UN 1950, AEROSOLS, FLAMMABLE

# 14.3 Transport hazard class(es)

ADR/RID: Class 2, Code: 5F
IMDG: Class 2.1, Subrisk -

IATA-DGR: Class 2.1

# 14.4 Packing group

ADR/RID, IATA-DGR: not applicable

IMDG:

#### 14.5 Environmental hazards

Marine pollutant: Ves

#### 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:







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#### Sea transport (IMDG)

EmS: F-D, S-U

Special Provisions: 63 190 277 327 344 381 959

Limited quantities: 1000 mL Excepted quantities: F0

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 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

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 Environmental hazards: Code E1, Quantity threshold 100 000 kg / 200 000 kg

Other hazards: Code O2, Quantity threshold 100 000 kg / 500 000 kg

Use restriction according to REACH annex XVII, no.: 3, 40, 75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

[Seveso-III-Directive]: P3a, O2, E2

## 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.

H260 = In contact with water releases flammable gases which may ignite spontaneously.

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

H302 = Harmful if swallowed.

H304 = May be fatal if swallowed and enters airways.

H319 = Causes serious eye irritation.

H331 = Toxic if inhaled.

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.

EUH066 = Repeated exposure may cause skin dryness or cracking.

Abbreviations and acronyms:

Acute Tox.: Acute toxicity

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

EC50: Effective Concentration 50%

EN: European Standard EQ: Excepted quantities

EU: European Union

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

LC50: Median lethal concentration

LD50: Lethal dose 50%

LEL: Lower Explosion Limit

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

M-factor: Multiplication factor

NOAEL: No Observed Adverse Effect Level NOEC: No Observed Effect Concentration

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

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

Water-react: Water-reactive WEL: Workplace Exposure Limit

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# Department issuing data sheet

Contact person: see section 1: Department responsible for information

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