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# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.10.2018

Version number 15

Revision: 12.09.2017

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

#### · 1.1 Product identifier

- · Trade name: BRUNOX® LUB & COR® (AEROSOL)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against • Sector of Use
- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- SU21 Consumer uses: Private households / general public / consumers
- SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Product category

PC2 Adsorbents

PC14 Metal surface treatment products

PC24 Lubricants, greases, release products

#### · Process category

PROC7 Industrial spraying

- PROC11 Non industrial spraying
- PROC17 Lubrication at high energy conditions in metal working operations

PROC18 General greasing /lubrication at high kinetic energy conditions

#### · Environmental release category

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article) ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

#### • Application of the substance / the mixture

Anticorrosion additive

1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

BRUNOX Korrosionsschutz GmbH Adlzreiterstrasse 13, 85051 Ingolstadt Postfach 100127, 85001 Ingolstadt

Tel. + 49/ (0) 841 961 29 04 Fax + 49/ (0) 841 961 29 13 E-mail: office@brunox.com

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Trade name: BRUNOX® LUB & COR® (AEROSOL)

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• Further information obtainable from: Abteilung Produktsicherheit: Tel. +41/ (0)79 372 34 44 · 1.4 Emergency telephone number: Toxikologisches Informationszentrum CH - 8030 Zürich, Freiestrasse 16 Tel. +41/ 044 251 51 51 Notruf - CH, STIZ: 145 Notruf - D - : Giftnotrufzentrale 030 19240 Notruf - BE - : 070 - 245 245 EUROPÄISCHE NOTRUFNR. : 112 Notruf - GB - : 844 892 0111 Notruf - IE - : + 353 1 837 9964 (medical professionals); + 353 1 809 2166 (public) Notruf - IS - : + 354 543 22 22 Notruf - JP - : + 81 72 727 2499; + 81 29 852 9999 Notruf - NZ - : 0800 764 766 Notruf - PK - : + 92 21 9920509; + 92 21 35686535 Notruf - PH - : + 632 524 10 78; + 632 544 84 00; local 2311 Notruf - SA - : + 966 146 77 353, + 966 3 8155 646; Ext. 280, 282, 283 Notruf - TH - : + 66 201 1086 Notruf - UAE - : 800 424 Notruf - ZA - : + 27 824 910 160

## **SECTION 2: Hazards identification**

• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008

GHS02 flame

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

GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

GHS07

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.

· 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.



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#### Trade name: BRUNOX® LUB & COR® (AEROSOL)

· Hazard pictograms



- · Signal word Danger
- · Hazard-determining components of labelling:

Naphtha (petroleum), hydrodesulfurized light dearomatized

Naphtha (petroleum), hydrotreated light

#### · Hazard statements

- H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- 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.
- P103 Read label before use.
- 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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact<br/>lenses, if present and easy to do. Continue rinsing.P405Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local/regional/national/ international regulations.

### · 2.3 Other hazards

#### · Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:

CAS: 92045-53-9	Naphtha (petroleum), hydrodesulfurized light	≥10-<25%
EINECS: 295-434-2	dearomatized	
Index number: 649-383-00-1	Flam. Liq. 2, H225	
Reg.nr.: 01-2119475515-33-XXXX	🚯 Asp. Tox. 1, H304	
	Aquatic Chronic 2, H411	
	Skin Irrit. 2, H315; STOT SE 3, H336	



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 Trade name:
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 CAS: 64742-49-0
 Naphtha (petroleum), hydrotreated light
 ≥10-<25%</td>

 EINECS: 265-151-9
 Index number: 649-328-00-1
 Asp. Tox. 1, H304

 Des previol 2 10104725514 25
 XXXX
 Asp. Tox. 2, H225

Reg.nr.: 01-2119475514-35-XXXX	<ul> <li>Aquatic Chronic 2, H411</li> <li>Skin Irrit. 2, H315; STOT SE 3, H336</li> </ul>	
CAS: 64742-47-8 EINECS: 265-149-8 Index number: 649-422-00-2 Reg.nr.: 01-2119456620-43-XXXX	<ul> <li>Distillates (petroleum), hydrotreated light</li> <li>Flam. Liq. 3, H226</li> <li>Asp. Tox. 1, H304</li> <li>STOT SE 3, H336</li> </ul>	≥2.5-<10%
CAS: 68608-26-4 Reg.nr.: 01-2119527859-22-XXXX	sulfonic acids, petroleum, sodium salts	≥2.5-<10%
CAS: 5131-66-8 EINECS: 225-878-4 Index number: 603-052-00-8 Reg.nr.: 01-2119475527-28-XXXX	3-butoxypropan-2-ol Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥2.5-<10%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide ♦ Press. Gas (Liq.), H280	2.5-10%

• Additional information: For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

• After inhalation: In case of unconsciousness place patient stably in side position for transportation.

- After skin contact:
- If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- $\cdot$  **4.2 Most important symptoms and effects, both acute and delayed** Nausea
- Headache

Dizziness

• Hazards Danger of pneumonia.

• 4.3 Indication of any immediate medical attention and special treatment needed If swallowed or in case of vomiting, danger of entering the lungs.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Foam
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- <u>5.2 Special hazards arising from the substance or mixture</u> Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released:



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- · 5.3 Advice for firefighters
- **Protective equipment:** Do not inhale explosion gases or combustion gases. Wear self-contained respiratory protective device. Wear fully protective suit.
- · Additional information Cool endangered receptacles with water spray.

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

- 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Keep away from ignition sources.
   Wear protective equipment. Keep unprotected persons away.
   6.2 Environmental precautions:
- Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.
- 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.

# **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling Keep away from heat and direct sunlight. Use only in well ventilated areas. Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
   Information about fire - and explosion protection: Do not aprovide a packed flame or any incondescent material.
- Do not spray onto a naked flame or any incandescent material. Use explosion-proof apparatus / fittings and spark-proof tools. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Pressurised 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.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- Observe official regulations on storing packagings with pressurised containers. • Information about storage in one common storage facility:
- Store away from foodstuffs. Store away from oxidising agents.



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#### · Further information about storage conditions:

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting. Store under lock and key and out of the reach of children. Keep container tightly sealed. Do not seal receptacle gas tight. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

• 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

- Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

#### CAS: 124-38-9 carbon dioxide

IOELV Long-term value: 9000 mg/m<sup>3</sup>, 5000 ppm

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the skin. Avoid contact with the eyes and skin.

• <u>Respiratory protection:</u> Filter A/P2

Filter AX

#### · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

## Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.



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#### Trade name: BRUNOX® LUB & COR® (AEROSOL)

#### · 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.

· Eye protection:



Tightly sealed goggles

· Body protection: Light weight protective clothing

\*

# **SECTION 9: Physical and chemical properties**

<ul> <li>9.1 Information on basic physical and</li> <li>General Information</li> <li>Appearance:</li> </ul>	chemical properties
<u>Form:</u> <u>Colour:</u> · <u>Odour:</u> · <u>Odour threshold:</u>	Aerosol olivegelblich / olive-yellow Characteristic Not determined.
· pH-value:	Not determined.
<ul> <li>Change in condition Melting point/freezing point: Initial boiling point and boiling range</li> </ul>	Undetermined. e: 170 ℃
· Flash point:	℃ 0>
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	210 ℃
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<ul> <li>Explosion limits: Lower: Upper:</li> </ul>	0.5 Vol % 6.5 Vol %
· <u>Vapour pressure:</u>	Not determined.
<ul> <li>Density at 20 °C:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	0.84 g/cm <sup>3</sup> Not determined. Not determined. Not applicable.
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<ul> <li>Solubility in / Miscibility with water:</li> </ul>	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· <u>Viscosity:</u> Dynamic: Kinematic:	Not determined. Not determined.
<ul> <li><u>Solvent content:</u></li> <li><u>Organic solvents:</u></li> </ul>	48.0 %
Solids content: • 9.2 Other information	3.0 % No further relevant information available.

## **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- <u>Thermal decomposition / conditions to be avoided:</u> No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Danger of bursting.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

# **SECTION 11: Toxicological information**

- <u>11.1 Information on toxicological effects</u>
- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- · Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- $\cdot$  <u>Carcinogenicity</u> 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
- May cause drowsiness or dizziness.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.

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- Aspiration hazard Based on available data, the classification criteria are not met.
- \*

**SECTION 12: Ecological information** 

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- **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.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### · European waste catalogue

- HP 3 Flammable
- HP 4 Irritant skin irritation and eye damage
- HP 5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
- HP 14 Ecotoxic
- · Uncleaned packaging:
- **<u>Recommendation</u>**: Disposal must be made according to official regulations.

- · 14.1 UN-Number
- · ADR/RID/ADN, IMDG, IATA

UN1950



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	(Contd. of
<ul> <li><u>14.2 UN proper shipping name</u></li> <li><u>ADR/RID/ADN</u></li> </ul>	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
· IMDG · IATA	AEROSOLS, MARINE POLLUTANT AEROSOLS, flammable
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN	
	2 5F Gases. 2.1
· <u>Label</u> · IMDG	2.1
· <u>Class</u>	2.1
· <u>Label</u>	2.1
	2.1 2.1
<sup>·</sup> <u>Label</u> · 14.4 Packing group	2.1
· ADR/RID/ADN, IMDG, IATA	Void
<ul> <li><u>14.5 Environmental hazards:</u></li> <li><u>Marine pollutant:</u></li> </ul>	Yes Symbol (fish and tree)
· Special marking (ADR/RID/ADN):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Gases.
<ul> <li>Danger code (Kemler):</li> <li>EMS Number:</li> </ul>	- F-D,S-U

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Stowage Code     Segregation Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
14.7 Transport in bulk according to Annex	—
of Marpol and the IBC Code	Not applicable.
<ul> <li>Transport/Additional information:</li> </ul>	
<ul> <li>ADR/RID/ADN</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E0 Not permitted as Excepted Quantity
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	2 D
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

# **SECTION 15: Regulatory information**

• <u>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</u>

- Seveso category
- E2 Hazardous to the Aquatic Environment P3b FLAMMABLE AEROSOLS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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<sup>·</sup> Directive 2012/18/EU

<sup>·</sup> Named dangerous substances - ANNEX I None of the ingredients is listed.



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

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 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.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- · Department issuing SDS: Abteilung Produktsicherheit
- · Contact: siehe Seite 1 / see page 1

Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Aerosol 1: Aerosols - Category 1 Press. Gas (Liq.): Gases under pressure - Liquefied gas Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Asp. Tox. 1: Aspiration hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

\* Data compared to the previous version altered.