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Revision: 10.02.2023

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.02.2023

Version number 21 (replaces version 20)

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

#### · 1.1 Product identifier

- Trade name: BRUNOX® LUB & COR® (BULK)
- · **UFI**: FCW0-60KK-T00V-48VS

## 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

PC24 Lubricants, greases, release products

#### Process category

PROC5 Mixing or blending in batch processes

PROC7 Industrial spraying

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

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

Lubricant

## · 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

UFI info / E-mail: ufi@brunox.com www.brunox.de

BRUNOX AG
Tunnelstrasse 6

CH - 8732 Neuhaus/SG

Tel. +41/ (0)55 285 80 80 Fax +41/ (0)55 285 80 81



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Trade name: BRUNOX® LUB & COR® (BULK)

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E-mail: office@brunox.com

www.brunox.swiss

UFI info / E-mail: ufi@brunox.com

#### · Further information obtainable from:

Abteilung Produktsicherheit / Product Safety Department:

Tel. - Switzerland: +41/ (0)55 285 80 80 Tel. - Germany: +49 / (0)841 961 29 04

Mo - Do / Mon - Thu: 08:00 - 16:00 Uhr

Fr / Fri: 08:00 - 12:00 Uhr

### · 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



Flam. Liq. 3 H226 Flammable liquid and vapour.

#### · 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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#### · Hazard pictograms



# · Signal word Warning

### · Hazard statements

H226 Flammable liquid and vapour.

## · Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower].

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

### · Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

#### · 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: 64742-47-8 Distillates (petroleum), hydrotreated light 25-50%

Index number: 649-422-00-2 Reg.nr.: 01-2119456620-43-

XXXX

CAS: 64742-47-8 Distillates (petroleum), hydrotreated light 2.5-10%

XXXX

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CAS: 68608-26-4 sulfonic acids, petroleum, sodium salts

XXXX

· 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: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: If skin irritation continues, consult a doctor.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed

Headache Dizziness Nausea

Gastric or intestinal disorders

- · 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

Fire-extinguishing powder

Carbon dioxide

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide (CO)

- 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.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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# **SECTION 6: Accidental release measures**

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

Keep away from ignition sources.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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

Use only in well ventilated areas.

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

### · Information about fire - and explosion protection:

Use explosion-proof apparatus / fittings and spark-proof tools.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

## · 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- · Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions:

Store under lock and key and out of the reach of children.

Store receptacle in a well ventilated area.

Keep container tightly sealed.

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

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

#### · 8.1 Control parameters

# Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Additional information: The lists valid during the making were used as basis.

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- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Be sure to clean skin thoroughly after work and before breaks.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

### · Respiratory protection:

Short term filter device:

Filter A/P2

Filter AX

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### Hand protection



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

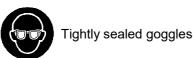
Nitrile rubber, NBR

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.

### 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/face protection



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

- 9.1 Information on basic physical and chemical properties
- · General Information
- · Colour:

olivegelblich / olive-yellow



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Odour: Characteristic
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and

boiling range >176 °C
Flammability Not applicable.

· Lower and upper explosion limit

 · Lower:
 0.5 Vol %

 · Upper:
 8.5 Vol %

 · Flash point:
 51 °C

 · Ignition temperature:
 210 °C

· <u>Decomposition temperature:</u> Not determined. · <u>pH</u> Not determined.

· Viscosity:

Kinematic viscosity
 Dynamic at 20 °C:
 Not determined.
 85 mPas

· Solubility

· water: Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log

value)
Not determined.
Vapour pressure at 20 °C:
2,100 hPa

Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

· 9.2 Other information

· Appearance:

· Form: Fluid

Important information on protection of health

and environment, and on safety.

• Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

· Solvent content:

· Organic solvents: 0.5 % · Solids content: 39.9 %

· Change in condition

• Evaporation rate Not determined.

· Information with regard to physical hazard

classes

Explosives Void
 Flammable gases Void
 Aerosols Void
 Oxidising gases Void
 Gases under pressure Void

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· Flammable liquids

Flammable liquid and vapour.

Flammable solids
Self-reactive substances and mixtures
Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Substances and mixtures, which emit

flammable gases in contact with water

Oxidising liquids
Oxidising solids
Organic peroxides
Corrosive to metals
Desensitised explosives
Void

• Additional information 40 °C 27 mPas

# **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Visible decomposition with spontaneous ignition on heating.

- 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: Carbon monoxide and carbon dioxide

## **SECTION 11: Toxicological information**

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

- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

CAS: 64742-47-8 Distillates (petroleum), hydrotreated light

Oral LD50 >5,000 mg/kg (rat)

Dermal LD50 >5,000 mg/kg (rabbit)

Inhalative LC50/4 h >5,000 mg/l (rat)

CAS: 64742-47-8 Distillates (petroleum), hydrotreated light

Oral LD50 >2,000 mg/kg (rat)
Dermal LD50 >2,000 mg/kg (rabbit)

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#### · Skin corrosion/irritation

Bei längeren und/oder häufigem Hautkontakt sind Reizerscheinungen möglich. Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis

- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity 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.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:

CAS: 64742-47-8 Distillates (petroleum), hydrotreated light

LC50/96 h 1,000 mg/l (Fish) EC50/48h 1,000 mg/l (daphnia) IC50 algae 1,000 mg/l (algae)

- · 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.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must be specially treated adhering to official regulations.

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

· European waste catalogue

HP3 Flammable

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

# **SECTION 14: Transport information**

· 14.1 UN number or ID number

· ADR/RID/ADN, IMDG, IATA UN1268

· 14.2 UN proper shipping name

• ADR/RID/ADN 1268 PETROLEUM DISTILLATES, N.O.S. • IMDG, IATA PETROLEUM DISTILLATES, N.O.S.

· 14.3 Transport hazard class(es)

· ADR/RID/ADN, IMDG, IATA



· <u>Class</u> 3 Flammable liquids.

· Label 3

· 14.4 Packing group

· ADR/RID/ADN, IMDG, IATA III

· 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Warning: Flammable liquids.

Hazard identification number (Kemler code): 30
 EMS Number: F-E,S-E
 Stowage Category A

· 14.7 Maritime transport in bulk according to

**IMO instruments** Not applicable.

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· Transport/Additional information:

· ADR/RID/ADN

· <u>Limited quantities (LQ)</u> 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000

ml

· <u>Transport category</u> 3 · <u>Tunnel restriction code</u> D/E

· Remarks: solvent naphtha

·IMDG

Limited quantities (LQ)Excepted quantities (EQ)5LCode: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000

ml

· Remarks: solvent naphtha

·IATA

· Remarks: solvent naphtha

· UN "Model Regulation": UN 1268 PETROLEUM DISTILLATES, N.O.S. 3,

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## **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

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#### · Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

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

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· Department issuing SDS: Abteilung Produktsicherheit

· Contact: siehe Seite 1 / see page 1

· Date of previous version: 16.03.2021

Version number of previous version: 20

Abbreviations and acronyms:

ADR: Accord relatif au transport international 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids - Category 3

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

\* Data compared to the previous version altered.