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# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.02.2023

Version number 27 (replaces version 26)

Revision: 10.02.2023

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

#### 1.1 Product identifier

#### · <u>Trade name:</u> BRUNOX® Top-Kett® (AEROSOL)

UFI: Y579-40AQ-M000-KETH

# • <u>1.2 Relevant identified uses of the substance or mixture and uses advised against</u>

- · 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 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

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 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 EUROPÄISCHE NOTRUFNR.: 112 Notruf - BE - : 070 -245 245 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



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.

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Eye Irrit. 2H319Causes serious eye irritation.STOT SE 3H336May 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. **Hazard pictograms** 



GHS02 GHS07 GHS09

Signal word Danger

#### 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 carefully and follow all instructions.
- 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 dust/fume/gas/mist/vapours/spray.
- P271 Use only outdoors or in a well-ventilated area.

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

P410+P412Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.P501Dispose of contents/container in accordance with local/regional/national/<br/>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.



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_		(Contd. of page 3)	
<ul> <li>Dangerous components:</li> <li>CAS: 64742-49-0</li> <li>EINECS: 265-151-9</li> </ul>	Naphtha (petroleum), hydrotreated light	≥20-<25%	
Index number: 649-328-00-1 Reg.nr.: 01-2119475514-35- XXXX	🚯 Asp. Tox. 1, H304		
CAS: 92045-53-9 EINECS: 295-434-2 Index number: 649-383-00-1 Reg.nr.: 01-2119475515-33- XXXX	V · ······ =·····	≥20-<25%	
CAS: 64742-47-8 EINECS: 265-149-8 Index number: 649-422-00-2 Reg.nr.: 01-2119484819-18- XXXX		2.5-10%	
CAS: 5131-66-8 EINECS: 225-878-4 Index number: 603-052-00-8 Reg.nr.: 01-2119475527-28- XXXX		≥2.5-<10%	
CAS: 68608-26-4 Reg.nr.: 01-2119527859-22- XXXX	sulfonic acids, petroleum, sodium salts Ý Eye Irrit. 2, H319	≥2.5-<10%	
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide � Press. Gas (Liq.), H280	2.5-10%	
<ul> <li>Additional information: Fo</li> </ul>	r 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.

4.2 Most important symptoms and effects, both acute and delayed

Nausea

Headache

Dizziness

· <u>Hazards</u> Danger of pneumonia.

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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
- **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.

# **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 spray onto a naked flame or any incandescent material. Use explosion-proof apparatus / fittings and spark-proof tools.



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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.
- 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**

- · 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
- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as 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.
- Respiratory protection:
- Filter A/P2
- Filter AX

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# · 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



Tightly sealed goggles

· Body protection: Light weight protective clothing

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

- · 9.1 Information on basic physical and chemical properties
- General Information
- · Colour:
- · <u>Odour:</u>
- · Odour threshold:
- · Melting point/freezing point:
- Boiling point or initial boiling point and boiling range
- Flammability
- · Lower and upper explosion limit
- · Lower:
- · Upper:
- · Flash point:
- · Ignition temperature:
- · Decomposition temperature:
- **pH**

olivegelblich / olive-yellow Characteristic Not determined. Undetermined.

170 °C Not applicable.

0.5 Vol % 6.5 Vol % Not applicable, as aerosol. 210 °C Not determined. Not determined.



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· <u>Viscosity:</u>	
Kinematic viscosity	Not determined.
· <u>Dynamic:</u>	Not determined.
· Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log	
value)	Not determined.
· Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	0.84 g/cm³
· Relative density	Not determined.
Vapour density	Not determined.
• 9.2 Other information	
· Appearance:	
· Form:	Aerosol
· Important information on protection of health	
and environment, and on safety.	<u>1</u>
Auto-ignition temperature:	Product is not selfigniting.
• Explosive properties:	Product is not explosive. However, formation of
Explosive properties.	explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	48.0 %
· VOC (EC)	0,00 %
· Solids content:	3.0 %
· Change in condition	5.0 /0
· Evaporation rate	Not applicable.
<b>-</b>	Not applicable.
Information with regard to physical hazard	
classes	
Explosives	Void
Flammable gases	Void
Aerosols	the second second of the second second
Extremely flammable aerosol. Pressurised conta	
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	N/ 11
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
· Organic peroxides	Void



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Corrosive to metals	Void
Desensitised explosives	Void

# **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 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**

• 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: 64742-49-0 Naphtha (petroleum), hydrotreated light

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

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

Inhalative LC50/4 h >25,000 mg/l (rat)

## CAS: 92045-53-9 Naphtha (petroleum), hydrodesulfurized light dearomatized

Oral LD50 >5,840 mg/kg (rat)

Dermal LD50 >2,920 mg/kg (rat)

Inhalative LC50/4 h 23.3 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)

## CAS: 5131-66-8 3-butoxypropan-2-ol

Oral LD50 3,300 mg/kg (rat)

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

Inhalative LC50/4 h 651 mg/l (rat)

## · 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.
- <u>Germ cell mutagenicity</u> Based on available data, the classification criteria are not met.
   Carcinogenicity Based on available data, the classification criteria are not met.



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- <u>Reproductive toxicity</u> Based on available data, the classification criteria are not met. • <u>STOT-single exposure</u>
- May cause drowsiness or dizziness.
- · 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: 64742-49-0 Naphtha (petroleum), hydrotreated light

LC50/96 h >10 mg/l (Fish)

EC50/48h 3 mg/l (daphnia)

CAS: 92045-53-9 Naphtha (petroleum), hydrodesulfurized light dearomatized

- LC50/96 h >13.4 mg/l (Fish)
- EC50/48h 3 mg/l (daphnia)
- IC50 algae 10-30 mg/l (algae)

## CAS: 5131-66-8 3-butoxypropan-2-ol

- LC50/96 h 560-1,000 mg/l (Poecilia reticulata (Guppy))
- 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
- · Remark: Toxic for fish

## · Additional ecological information:

General notes:

Toxic for aquatic organisms

Also poisonous for fish and plankton in water bodies.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

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Danger to drinking water if even small quantities leak into the ground.

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# **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
- HP3 Flammable
- HP4 Irritant skin irritation and eye damage
- HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
- HP14 Ecotoxic
- · 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
- 14.2 UN proper shipping name · ADR/RID/ADN
- · IMDG
- ·IATA
- · 14.3 Transport hazard class(es)
- · ADR/RID/ADN



- · Class
- · Label
- ·IMDG



2 5F Gases. 2.1

2.1 Gases.

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UN1950

1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS

AEROSOLS, MARINE POLLUTANT AEROSOLS, flammable



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·IMDG

- Limited quantities (LQ)
- · Excepted quantities (EQ)

Code: E0 Not permitted as Excepted Quantity

UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

UN "Model Regulation":

# **SECTION 15: Regulatory information**

- <u>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</u>
- Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- <u>Seveso category</u> 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
- 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.

- 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.



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#### Relevant phrases

- Highly flammable liquid and vapour. H225
- 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.

EUH066 Repeated exposure may cause skin dryness or cracking.

· Department issuing SDS: Abteilung Produktsicherheit

· Contact: siehe Seite 1 / see page 1

Date of previous version: 16.03.2021

· Version number of previous version: 26

#### · 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 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)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- 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.