

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

Printing date 10.02.2023

Version number 19 (replaces version 18)

Revision: 10.02.2023

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

· **1.1 Product identifier**

· **Trade name:** BRUNOX® Deo FÜR DIE FEDERGABEL® (AEROSOL)

· **UFI:** YWS0-X0YQ-K002-NMK6

· **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**

PROC7 Industrial spraying

PROC11 Non industrial spraying

PROC17 Lubrication at high energy conditions in metal working operations

· **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**

Lubricant

Anticorrosion additive

Maintenance product

· **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

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· BRUNOX AG

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Trade name: BRUNOX® Deo FÜR DIE FEDERGABEL® (AEROSOL)

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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 - 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

Notruf - D - : Giftnotrufzentrale 030 19240

EUROPÄISCHE NOTRUFNR. : 112

SECTION 2: Hazards identification

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

GHS02 flame

Aerosol 2 H223-H229 Flammable aerosol. Pressurised container: May burst if heated.

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

Signal word Warning

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· Hazard statements

H223-H229 Flammable aerosol. Pressurised container: May burst if heated.

· Precautionary statements

P102 Keep out of reach of children.

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.

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

· 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 50-100%

EC number: 926-141-6 ⚠ Asp. Tox. 1, H304

Index number: 649-422-00-2

Reg.nr.: 01-2119456620-43-XXXX

CAS: 124-38-9 carbon dioxide 2.5-10%

EINECS: 204-696-9 ⚠ Press. Gas (Liq.), H280

CAS: 68608-26-4 sulfonic acids, petroleum, sodium salts ≥2.5-<10%

Reg.nr.: 01-2119527859-22-XXXX ⚠ Eye Irrit. 2, H319

· 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**· General information:** Seek medical treatment.**· After inhalation:**

Take affected persons into fresh air and keep quiet.

Seek medical treatment 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**

Nausea

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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

Fire-extinguishing powder

· **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 to penetrate the ground/soil.

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.

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- **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.
Keep ignition sources away - Do not smoke.
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:**
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.
- **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/m³, 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:**
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:**
Filter A/P2
Filter AX
- **Hand protection**
Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.
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

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· 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 Not required.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties**· General Information**

· Colour:	Clear
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	-60 °C
· Boiling point or initial boiling point and boiling range	>190 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	0.5 Vol %
· Upper:	6.5 Vol %
· Flash point:	Not applicable, as aerosol.
· Ignition temperature:	210 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	3.9 mPas
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	2 hPa
· Density and/or relative density	
· Density at 20 °C:	0.83 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

· 9.2 Other information**· Appearance:****· Form:** Aerosol

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· Important information on protection of health and environment, and on safety.

- | | |
|-------------------------------------|------------------------------|
| · Auto-ignition temperature: | Product is not selfigniting. |
| · Explosive properties: | Not determined. |
| · Solvent content: | |
| · Organic solvents: | 0.5 % |
| · VOC (EC) | 0,52 % |
| · Solids content: | 2.0 % |
| · Change in condition | |
| · Evaporation rate | Not applicable. |

· Information with regard to physical hazard classes

- | | |
|--|------|
| · Explosives | Void |
| · Flammable gases | Void |
| · Aerosols | |
| Flammable aerosol. Pressurised container: May burst if heated. | |
| · 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 flammable gases in contact with water | Void |
| · Oxidising liquids | Void |
| · Oxidising solids | Void |
| · Organic peroxides | Void |
| · 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

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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)
- **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.

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- **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.

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

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

- **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**

UN1950

- **14.2 UN proper shipping name**

- **ADR/RID/ADN**

1950 AEROSOLS

- **IMDG**

AEROSOLS

- **IATA**

AEROSOLS, flammable

- **14.3 Transport hazard class(es)**

- **ADR/RID/ADN**



- **Class**

2 5F Gases.

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· <u>Label</u>	2.1
· <u>IMDG, IATA</u>	
	
· <u>Class</u>	2.1 Gases.
· <u>Label</u>	2.1
· <u>14.4 Packing group</u>	
· <u>ADR/RID/ADN, IMDG, IATA</u>	Void
· <u>14.5 Environmental hazards:</u>	
· <u>Marine pollutant:</u>	NEIN No
· <u>14.6 Special precautions for user</u>	Warning: Gases.
· <u>Hazard identification number (Kemler code):</u>	-
· <u>EMS Number:</u>	F-D,S-U
· <u>Stowage Code</u>	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.
· <u>Segregation Code</u>	
· <u>14.7 Maritime transport in bulk according to IMO instruments</u>	Not applicable.
· <u>Transport/Additional information:</u>	
· <u>ADR/RID/ADN</u>	
· <u>Limited quantities (LQ)</u>	1L
· <u>Excepted quantities (EQ)</u>	Code: E0 Not permitted as Excepted Quantity
· <u>Transport category</u>	2
· <u>Tunnel restriction code</u>	D

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- **IMDG**
- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity
- **UN "Model Regulation":** UN 1950 AEROSOLS, 2.1

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** P3b FLAMMABLE AEROSOLS
- **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.
- **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**
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.

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- **Department issuing SDS:** Abteilung Produktsicherheit
- **Contact:** siehe Seite 1 / see page 1
- **Date of previous version:** 16.03.2021
- **Version number of previous version:** 18
- **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 2: Aerosols – Category 2
 - Press. Gas (Liq.): Gases under pressure – Liquefied gas
 - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 - Asp. Tox. 1: Aspiration hazard – Category 1
- *** Data compared to the previous version altered.**

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