

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

Printing date 09.06.2020

Version number 12

Revision: 07.06.2020

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

· **1.1 Product identifier**

· **Trade name: BRUNOX® Turbo-Spray® (BULK)**

· **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**

- 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)
- PROC10 Roller application or brushing
- 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**

- Lubricant
- Anticorrosion additive
- Polishing agent/ Burnishing compound
- Screw loosening agent
- 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

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Abteilung Produktsicherheit / Product Safety Department:Tel. - Switzerland: +41/ (0)55 285 80 80  
Tel. - Germany: +49 / (0)841 961 29 04Mo - 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  
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- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- **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**

GHS08

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

Distillates (petroleum), hydrotreated light

**Hazard statements**

H304 May be fatal if swallowed and enters airways.

**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.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

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	50-100%
EC number: 926-141-6	⚠ Asp. Tox. 1, H304	
Reg.nr.: 01-2119456620-43-XXXX		
CAS: 68608-26-4	sulfonic acids, petroleum, sodium salts	≥2.5-<10%
Reg.nr.: 01-2119527859-22-XXXX	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 123-95-5	butyl stearate	≤2%
EINECS: 204-666-5	substance with a Community workplace exposure limit	

**Additional information:** For the wording of the listed hazard phrases refer to section 16.GB  
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### **SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information:** Seek immediate medical advice.
- **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**  
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
- **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.
- **6.2 Environmental precautions:**  
Do not allow to penetrate the ground/soil.  
Do not allow to enter sewers/ surface or ground water.

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- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
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:**  
Do not spray onto a naked flame or any incandescent material.  
Use explosion-proof apparatus / fittings and spark-proof tools.
- **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 foodstuffs.  
Store away from oxidising agents.
- **Further information about storage conditions:**  
Store receptacle in a well ventilated area.  
Store under lock and key and out of the reach of children.
- **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: 123-95-5 butyl stearate**  
WES (New Zealand) Long-term value: 10 mg/m<sup>3</sup>
- **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.  
Wash hands before breaks and at the end of work.

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Do not inhale gases / fumes / aerosols.

**Respiratory protection:**

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.

**Protection of hands:**

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

**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 protection:** Goggles recommended during refilling**Body protection:** Light weight protective clothing**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:****Form:**

Fluid

**Colour:**

Clear

**Odour:**

Characteristic

**Odour threshold:**

Not determined.

**pH-value:**

Not determined.

**Change in condition****Melting point/freezing point:**

-60 °C (-76 °F)

**Initial boiling point and boiling range:** >200 °C (>392 °F)**Flash point:**

78 °C (172.4 °F)

**Flammability (solid, gas):**

Not applicable.

**Ignition temperature:**

210 °C (410 °F)

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- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower:** 0.5 Vol %
  - Upper:** 6.5 Vol %
- **Vapour pressure at 20 °C (68 °F):** 2 hPa (1.5 mm Hg)
- **Density at 20 °C (68 °F):** 0.83 g/cm<sup>3</sup> (6.92635 lbs/gal)
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water at -1 °C (30.2 °F):** 20 g/l
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
  - Dynamic at 20 °C (68 °F):** 6.5 mPas
  - Kinematic:** Not determined.
- **Solvent content:**
  - Organic solvents:** 0.5 %
  - VOC (EC)** 0.00 %
- **Solids content:** 0.0 %
- **9.2 Other information** No further relevant information available.

**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.
- **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
  - Carbon dioxide

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**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**  
**CAS: 123-95-5 butyl stearate**  
Oral LD50 32,000 mg/kg (rat)
- **Primary irritant effect:**
- **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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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**  
May be fatal if swallowed and enters airways.

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

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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**

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

- **Department issuing SDS:** Abteilung Produktsicherheit

- **Contact:** siehe Seite 1 / see page 1

- **Abbreviations and acronyms:**

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)

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

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

- **\* Data compared to the previous version altered.**