

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

Printing date 14.03.2016

Version number 7

Revision: 14.03.2016

**1 Identification of the substance/mixture and of the company/undertaking****· Product identifier****· Trade name: BRUNOX® Turbo-Spray® (bulk)****· Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

**· 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, including galvanic and electroplating products

PC24 Lubricants, greases, release products

**· Process category**

PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

PROC7 Industrial spraying

PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

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

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC17 Lubrication at high energy conditions and in partly open process

PROC18 Greasing at high energy conditions

**· Environmental release category**

ERC4 Industrial use of processing aids in processes and products, not becoming part of articles

ERC8a Wide dispersive indoor use of processing aids in open systems

ERC8d Wide dispersive outdoor use of processing aids in open systems

**· Application of the substance / the mixture**

Lubricant

Anticorrosion additive

Polishing agent/ Burnishing compound

Screw loosening agent

Maintenance product

**· Details of the supplier of the safety data sheet****· Manufacturer/Supplier:**

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Emergency telephone in New Zealand(24 hours)  
National Poison Center : 0800 POISON [764 766]

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· **Further information obtainable from:** Abteilung Produktsicherheit: Tel. +41/ (0)79 372 34 44

· **Emergency telephone number:**

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## 2 Hazards identification

· **Classification of the substance or mixture**



health hazard

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

Flam. Liq. 4 H227 Combustible liquid.

Acute Tox. 5 H333 May be harmful if inhaled.

· **Label elements**

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS08

· **Signal word** Danger

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**· Hazard-determining components of labelling:**

Distillates (petroleum), hydrotreated light

**· Hazard statements**

H227 Combustible liquid.

H333 May be harmful if inhaled.

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.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.

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

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

P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

P405 Store locked up.

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

**· Other hazards****· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.**\* 3 Composition/information on ingredients****· Chemical characterisation: Mixtures****· Description:** Mixture of substances listed below with nonhazardous additions.**· Dangerous components:**

CAS: 64742-47-8 Distillates (petroleum), hydrotreated light 50-&lt;99,999%

EINECS: 265-149-8 ⚠ Asp. Tox. 1, H304

CAS: 68608-26-4 sulfonic acids, petroleum, sodium salts 2,5-&lt;10%

⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319

CAS: 123-95-5 butyl stearate 0,1-≤2%

EINECS: 204-666-5

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

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

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- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
Headache  
Dizziness  
Nausea  
Gastric or intestinal disorders
- **Hazards** Danger of pneumonia.
- **Indication of any immediate medical attention and special treatment needed**  
If swallowed or in case of vomiting, danger of entering the lungs.

**\* 5 Firefighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Foam  
Fire-extinguishing powder  
CO<sub>2</sub>. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water
- **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)
- **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.

**\* 6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Keep away from ignition sources.  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Do not allow to penetrate the ground/soil.  
Do not allow to enter sewers/ surface or ground water.
- **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.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

**\* 7 Handling and storage**

- **Handling:**
- **Precautions for safe handling**  
Use only in well ventilated areas.  
Prevent formation of aerosols.  
Keep receptacles tightly sealed.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Do not spray onto a naked flame or any incandescent material.  
Protect against electrostatic charges.  
Use explosion-proof apparatus / fittings and spark-proof tools.
- **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.
- **Specific end use(s)** No further relevant information available.

**\* 8 Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
**CAS: 123-95-5 butyl stearate**  
WES Long-term value: 10\* mg/m<sup>3</sup>  
\*inhalable dust: no asbestos, <1% free silica
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Avoid contact with the eyes and skin.  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:**  
Use suitable respiratory protective device in case of insufficient ventilation.

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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.

Filter A/P2

Filter AX

**Protection of hands:**

Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.



Protective gloves

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

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:** Safety glasses• **Body protection:** Light weight protective clothing**9 Physical and chemical properties****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/Melting range:**

-60 °C

**Boiling point/Boiling range:**

&gt; 200 °C

• **Flash point:**

78 °C

• **Flammability (solid, gaseous):**

Not applicable.

• **Ignition temperature:**

210 °C

• **Decomposition temperature:**

Not determined.

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- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower:** 0,5 Vol %
  - Upper:** 6,5 Vol %
- **Vapour pressure at 20 °C:** 2 hPa
- **Density at 20 °C:** 0,83 g/cm<sup>3</sup>
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water at -1 °C:** 20 g/l
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic at 20 °C:** 6,5 mPas
  - Kinematic:** Not determined.
- **Solvent content:**
  - Organic solvents:** 0,5 %
  - VOC (EC)** 0,00 %
- **Other information** No further relevant information available.

**10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
  - Carbon monoxide
  - Carbon dioxide

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity**
- **LD/LC50 values relevant for classification:**
  - ATE (Acute Toxicity Estimates)**
  - Inhalative LC50/4 h 1164 mg/l (rat)

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**CAS: 123-95-5 butyl stearate**

Oral LD50 32000 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** Irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### \* 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** insoluble in water
- **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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### \* 13 Disposal considerations

- **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**  
HP 5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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**14 Transport information**

- **UN-Number**
- **ADR,RID,ADN, ADN, IMDG, IATA** Void
- **UN proper shipping name**
- **ADR,RID,ADN, ADN, IMDG, IATA** Void
- **Transport hazard class(es)**
- **ADR,RID,ADN, ADN, IMDG, IATA**
- **Class** Void
- **Packing group**
- **ADR,RID,ADN, IMDG, IATA** Void
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **UN "Model Regulation":** Void

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **New Zealand Inventory of Chemicals**
  - CAS: 64742-47-8 Distillates (petroleum), hydrotreated light
  - CAS: 68608-26-4 sulfonic acids, petroleum, sodium salts
  - CAS: 123-95-5 butyl stearate
  - CAS: 107-98-2 1-methoxy-2-propanol
- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS08

The HSN0 Approval Number for this Group Standard is HSR002657.
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- **Signal word** Danger
- **Hazard-determining components of labelling:**

Distillates (petroleum), hydrotreated light
- **Hazard statements**

H227 Combustible liquid.  
H333 May be harmful if inhaled.

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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.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**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
- 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
- Flam. Liq. 4: Flammable liquids, Hazard Category 4
- Acute Tox. 5: Acute toxicity, Hazard Category 5
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
- Asp. Tox. 1: Aspiration hazard, Hazard Category 1

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