

EU Material Safety Data Sheet

According to 91/155 EEC& 93/112 EWG

Printing date 24.03.2004

Reviewed on 24.03.2004

1 Identification of substance:

- **Product details:**

- **Trade name:** BRUNOX® Turbo-Spray® 5-Funktionenspray

- **Application of the substance / the preparation:** Lubricant

- **Manufacturer/Supplier:**

BRUNOX AG
Etzelstrasse 4
CH-8730 Uznach

Tel: +41-055-285 80 80

Fax: +41-055-285 80 81

- **Informing department:** Product safety department

- **Emergency information:**

Toxic and Informations center Zürich
CH 8030 Zürich, Freiestrasse 16
Tel: +41 1 251 51 51

- **Distributor in New Zealand**

R A Johnstone & Co Ltd
739 Great South Road, Otahuhu
PO Box 97 948 SAMC Manukau 2240
Auckland. New Zealand

Tel: + 64 9 261 0333

Fax: + 64 9 261 0330

www.raj.co.nz


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

2 Composition/Data on components:

- **Chemical characterization**

- **Description:** Active substance with propellant.

- **components:**

CAS: 64742-47-8 EINECS: 265-149-8	Distillates (petroleum), hydrotreated light	 Xn; R 65-66	50-100%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide		2.5-10%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard designation:** void

- **Information pertaining to particular dangers for man and environment**

No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet.

The marking is valid for all pressurized container up to 50ml carrying capacity.

Warning! Pressurized container.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use.

Keep out of the reach of children

- **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4 First aid measures

- **General information** Instantly remove any clothing soiled by the product.

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.

- **After skin contact** Instantly wash with water and soap and rinse thoroughly.

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- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing**
Do not induce vomiting; instantly call for medical help.
A person vomiting while lying on their back should be turned onto their side.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Heat will increase pressure and may lead to the container exploding.
- **Protective equipment:** Do not inhale explosion gases or combustion gases.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation
Avoid contact with the eyes and skin.
- **Measures for environmental protection:**
Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
Absorb liquid components with liquid-binding material.
Dispose of the material collected according to regulations.
- **Additional information:** See Section 7 for information on safe handling

7 Handling and storage

- **Handling**
- **Information for safe handling:** No special precautions necessary if used correctly.
- **Information about protection against explosions and fires:**
Do not spray on flames or red-hot objects.
Beware: Container is pressurized. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire even after use.
With appropriate handling and storage no special measures necessarily
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store only in the original container.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
Store in a cool place. Heat will increase pressure and may lead to the container exploding.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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· **Components with limit values that require monitoring at the workplace:**

124-38-9 carbon dioxide

OES (Great Britain)	Short-term value: 27400 mg/m ³ , 15000 ppm
	Long-term value: 9150 mg/m ³ , 5000 ppm
	ILV

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Personal protective equipment**

· **General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Take off immediately all contaminated clothing

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Breathing equipment:** During good ventilation/exhaust or during brief, small load not necessarily

· **Protection of hands:**

With appropriate application not necessarily, however to carry protective gloves does recommend.

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**

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:**

By appropriate application not required

Avoid contact with the eyes.

9 Physical and chemical properties:

· **General Information**

Form:	Aerosol
Colour:	According to product specification
Odour:	Characteristic

· **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range: Not determined

· **Flash point:** 78°C

· **Ignition temperature:** 232°C

· **Self-inflammability:** Product is not self igniting.

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- | | |
|--|-----------------------------------|
| · Danger of explosion: | Product is not explosive. |
| · Critical values for explosion: | |
| Lower: | 0.6 Vol % |
| Upper: | 5.5 Vol % |
| · Density at 20°C | 0.83 g/cm ³ (+/- 0,02) |
| · Solubility in / Miscibility with Water: | Not miscible or difficult to mix |
| · Solvent content: | |
| Organic solvents: | 0.1 % |
| · Solids content: | 1.2 % |

10 Stability and reactivity

- **Thermal decomposition/ Conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Materials to be avoided:** Reaction with strong oxidants.
- **Dangerous reactions** Danger of bursting
- **Dangerous products of decomposition:**
Carbon monoxide
Carbon dioxide

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** no data available.
- **Primary irritant effect:**
- **on the skin:** Frequent and/ or presistent contact with skin may cause skin irritation.
- **on the eye:** Slight irritant effect possible.
- **Sensitisation:** No sensitising effect known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.

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13 Disposal considerations

- **Product:**
- **Recommendation** Disposal must be made according to official regulations.

- **European waste catalogue**

16 05 04	gases in pressure containers (including halons) containing dangerous substances
13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- Land transport ADR/RID (cross-border)



- **ADR/RID-GGVS/E Class:** 2 5A Gases.
- **Kemler Number:** 20
- **UN-Number:** 1950
- **Packaging group:** -
- **Label** 2.2
- **Designation of goods:** 1950 AEROSOLS

- Maritime transport IMDG:



- **IMDG Class:** 2.2
- **UN Number:** 1950
- **Label** 2.2
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Correct technical name:** AEROSOLS

- Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 2.2
- **UN/ID Number:** 1950
- **Label** 2.2
- **Packaging group:** -

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· **Correct technical name:** AEROSOLS, non-flammable

15 Regulatory information

· **Designation according to EC guidelines:**

The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

Observe the normal safety regulations when handling chemicals

· **Safety phrases:**

3 Keep in a cool place.

56 Dispose of this material and its container to hazardous or special waste collection point.

· **Special designation of certain preparations:**

Safety data sheet available for professional user on request.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use.

Keep out of the reach of children

· **National regulations**

[The HSNO Approval Number for this Group Standard is HSR002519.](#)

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information:

Information is based on our current knowledge but does not establish a promise of product characteristics and does not substantiate any contractual legal relationship.

· **Relevant R-phrases**

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

· **Contact:** BRUNOX AG Frau Dr. B. Lieberherr

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