

Safety Data Sheet in accordance with HSNO

Printing date 26.02.2021

Version number 18

Revision: 23.02.2021

1 Identification of the substance or mixture and of the supplier

· Product identifier**· Trade name:** BRUNOX® Turbo-Spray® (AEROSOL)**· 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

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

Polishing agent/ Burnishing compound

Corrosion inhibitors

Penetrating oil

Lubricant

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

BRUNOX Korrosionsschutz GmbH

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Postfach 100127 , 85001 Ingolstadt

Tel. + 49/ (0) 841 961 29 04

Fax + 49/ (0) 841 961 29 13

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BRUNOX AG

Tunnelstrasse 6

CH - 8732 Neuhaus/SG

Tel. +41/ (0)55 285 80 80

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E-mail: office@brunox.com

www.brunox.swiss

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Distributor in New Zealand

Pacer Car Clean Products NZ LTD

33 Ha Crescent, Wiri, Auckland,
New Zealand

Telephone: +64 9 25000 91

Fax: +64 9 25000 92

Web: www.pacer.co.nz

24hr Emergency Assistance in New Zealand

National Poison Control Center: 0800 Poison [764 766]

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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

· 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

Notruf - BE - : 070 -245 245

EUROPÄISCHE NOTRUFNR. : 112

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

2 Hazards identification

· Classification of the substance or mixture

flame

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

Skin Corr. 3 H316 Causes mild skin irritation.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.**· Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurised container.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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· **Label elements**

· **GHS label elements**

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

· **Hazard pictograms**



GHS02

· **Signal word** Warning

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

Distillates (petroleum), hydrotreated light

· **Hazard statements**

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

H316 Causes mild skin irritation.

· **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/sparks/open flames/hot surfaces. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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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	50-100%
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EC number: 926-141-6	☒ Xn R65	
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R66

☒ Asp. Tox. 1, H304

CAS: 124-38-9	carbon dioxide	2.5-10%
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EINECS: 204-696-9

CAS: 68608-26-4	sulfonic acids, petroleum, sodium salts	2.5-10%
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☒ Xi R36

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

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CAS: 123-95-5 butyl stearate
EINECS: 204-666-5

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≤2%

· **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 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.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
Nausea
Headache
Dizziness
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.
Later observation for pneumonia and pulmonary oedema.

5 Fire fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Foam
Fire-extinguishing powder
- **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.
- **Additional information** Cool endangered receptacles with water spray.

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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 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.

Methods and material for containment and cleaning up: Ensure adequate ventilation.**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.

7 Handling and storage

Handling:**Precautions for safe handling**

Keep away from heat and direct sunlight.

Use only in well ventilated areas.

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.

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.

Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

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.

Specific end use(s) No further relevant information available.

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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: 124-38-9 carbon dioxide**
WES Short-term value: 54000 mg/m³, 30000 ppm
Long-term value: 9000 mg/m³, 5000 ppm
 - CAS: 123-95-5 butyl stearate**
WES Long-term value: 10 mg/m³
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:**
Filter A/P2
Filter AX
- **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:** Not required.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<u>Form:</u>	Aerosol
<u>Colour:</u>	Clear

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· <u>Odour:</u>	Characteristic
· <u>Odour threshold:</u>	Not determined.
· <u>pH-value:</u>	Not determined.
· <u>Change in condition</u>	
<u>Melting point/freezing point:</u>	-60 °C
<u>Initial boiling point and boiling range:</u>	175 °C
· <u>Flash point:</u>	Not applicable, as aerosol.
· <u>Flammability (solid, gas):</u>	Not applicable.
· <u>Ignition temperature:</u>	210 °C
· <u>Decomposition temperature:</u>	Not determined.
· <u>Auto-ignition temperature:</u>	Product is not selfigniting.
· <u>Explosive properties:</u>	Not determined.
· <u>Explosion limits:</u>	
<u>Lower:</u>	0.5 Vol %
<u>Upper:</u>	6.5 Vol %
· <u>Vapour pressure at 20 °C:</u>	2 hPa
· <u>Density at 20 °C:</u>	0.83 g/cm ³
· <u>Relative density</u>	Not determined.
· <u>Vapour density</u>	Not determined.
· <u>Evaporation rate</u>	Not applicable.
· <u>Solubility in / Miscibility with water:</u>	Not miscible or difficult to mix.
· <u>Partition coefficient: n-octanol/water:</u>	Not determined.
· <u>Viscosity:</u>	
<u>Dynamic at 20 °C:</u>	3.9 mPas
<u>Kinematic:</u>	Not determined.
· <u>Solvent content:</u>	
<u>Organic solvents:</u>	0.5 %
<u>VOC (EC)</u>	0,00 %
<u>Solids content:</u>	2.0 %
· <u>Other information</u>	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.

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

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11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**
- **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)
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.
- **Additional toxicological information:**
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

12 Ecological information

- **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)
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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· 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.

· Uncleaned packaging:**· Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number**· ADR/RID/ADN, IMDG, IATA**

UN1950

· UN proper shipping name**· ADR/RID/ADN**

1950 AEROSOLS

· IMDG

AEROSOLS

· IATA

AEROSOLS, flammable

· Transport hazard class(es)**· ADR/RID/ADN****· Class**

2 5F Gases.

· Label

2.1

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· IMDG, IATA



· <u>Class</u>	2.1
· <u>Label</u>	2.1
· <u>Packing group</u>	
· <u>ADR/RID/ADN, IMDG, IATA</u>	Void
· <u>Environmental hazards:</u>	
· <u>Marine pollutant:</u>	NEIN No
· <u>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>Transport in bulk according to Annex II of Marpol and the IBC Code</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
· <u>IMDG</u>	
· <u>Limited quantities (LQ)</u>	1L

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· Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

· UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

*** 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: 124-38-9 carbon dioxide

CAS: 68608-26-4 sulfonic acids, petroleum, sodium salts

CAS: 123-95-5 butyl stearate

CAS: 107-98-2 1-methoxy-2-propanol

· HSNO Approval numbers

CAS: 124-38-9 carbon dioxide

HSR001018

CAS: 68608-26-4 sulfonic acids, petroleum, sodium salts

HSR003545

· GHS label elements

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

· Hazard pictograms

GHS02

NEW ZEALAND:Class 2.1.2A Aerosol – Flammable
Class 6.3B Skin Irritant

HSR002515 Aerosols (Flammable)

· Signal word Warning**· Hazard-determining components of labelling:**

Distillates (petroleum), hydrotreated light

· Hazard statements

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

H316 Causes mild skin irritation.

· 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/sparks/open flames/hot surfaces. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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

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- **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
- **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.

R36 Irritating to eyes.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

- **Department issuing SDS:** Abteilung Produktsicherheit

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

- **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

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

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

Skin Corr. 3: Skin corrosion/irritation – Category 3

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

Asp. Tox. 1: Aspiration hazard – Category 1

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