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

Printing date 01.02.2021

Version number 2

Revision: 05.02.2020

.1	Product identifier
[ra	le name: <u>BRUNOX®</u> Bremsenreiniger 500ml
1.2 No f Sect SU2 SU2 Prot Prot PRC	cle number: BR0,50TCLEAN Relevant identified uses of the substance or mixture and uses advised against auther relevant information available. or of Use 1 Consumer uses: Private households / general public / consumers 2 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) fuct category PC9a Coatings and paints, thinners, paint removers cess category PC7 Industrial spraying PC11 Non industrial spraying lication of the substance / the mixture Cleaner solvent
Mai BRU Adlz DE Tel. Fax	Details of the supplier of the safety data sheet nufacturer/Supplier: NOX Korrosionsschutz GmbH reiterstrasse 13 - 85051 Ingolstadt + 49 / (0) 841 961 29 04 + 49 / (0) 841 961 29 04 hail: office@brunox.com
Tun CH Tel Fax	NOX AG nelstrasse 6 - 8732 Neuhaus + 41 / (0) 55 285 80 80 + 41 / (0) 55 285 80 81 nail: office@brunox.com
Abte 1.4 Toxi CH	t her information obtainable from: ilung Produktesicherheit, während den Bürozeiten; Tel. + 49 / (0) 841 961 29 04 E mergency telephone number: kologisches Informationszentrum - 8030 Zürich, Freiestrasse 16 + 41 / (0) 44 251 51 51
Noti Noti Noti	uf – CH (STIZ): 145 uf – AT: 01 4064343 uf – BE: 070 – 245 245 uf – DE: Giftnotrufzentrale 030 19240 opäische Notrufnr.: 112
a P	
SE)	CTION 2: Hazards identification



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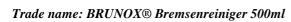
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. (Contd. on page 2) Page 2/10

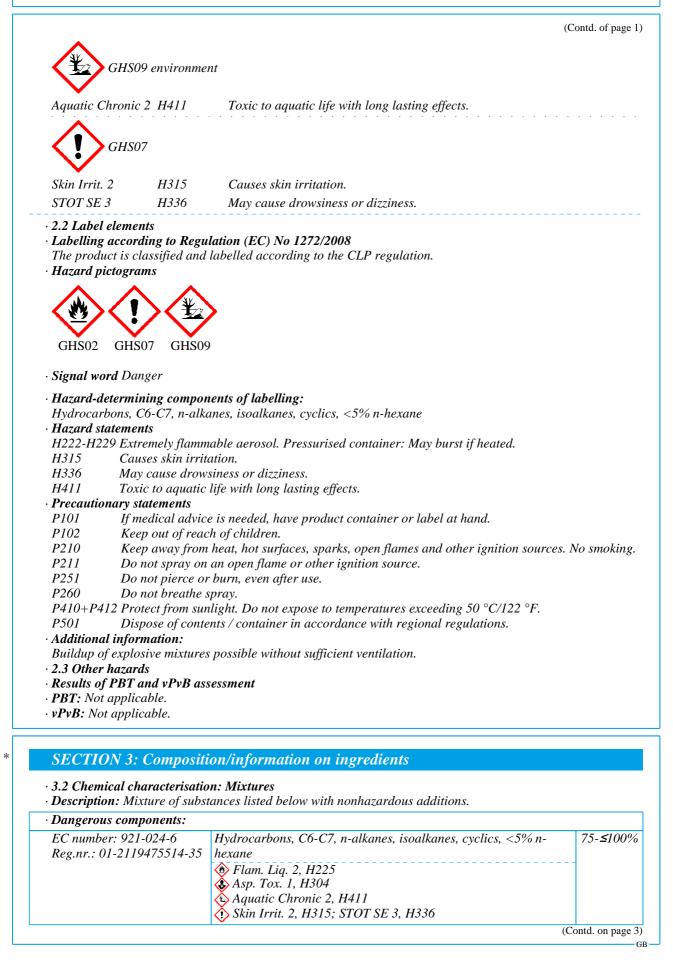
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Trade name: BRUNOX® Bremsenreiniger 500ml

	(Contd. of page 2)
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220 Press. Gas (Comp.), H280	5-<10%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane Flam. Gas 1A, H220 Press. Gas (Comp.), H280	2.5-<5%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide 🔗 Press. Gas (Liq.), H280	2.5-<5%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane Flam. Gas 1A, H220 Press. Gas (Comp.), H280	<2.5%
· Regulation (EC) No 648/2004 on detergents / Labelling for contents		
aliphatic hydrocarbons		≥30%

• Additional information:

The content of Benzene (EINECS-Nr. 200-753-7) in the ingredients is less than 0,1% (Note P Annex 1A 1272/2008 EU), so the classification as carcinogen need not to apply. For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- *CO2*, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced. 5.3 Advice for firefighters -
- 5.3 Aavice for firefighters -
- $\cdot \textit{Protective equipment: Mouth respiratory protective device.}$

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.

- Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13.

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Ensure adequate ventilation.

- 6.4 Reference to other sections See Section 7 for information on safe handling.
- 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 Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke. Keep respiratory protective device available.

· 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: Not required.
- Further information about storage conditions: Keep container tightly sealed.

· Storage class: 2 B

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

• Additional information about design of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the workplace:

106-97-8 butane

WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

124-38-9 carbon dioxide

WEL Short-term value: 27400 mg/m³, 15000 ppm Long-term value: 9150 mg/m³, 5000 ppm

• 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. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the skin. Avoid contact with the eyes and skin.

· Respiratory protection:



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 A2/P3

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• Protection of hands:



Protective gloves

• *Material of gloves Butyl rubber, BR*

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.

· Penetration time of glove material

Butyl rubber gloves with a thickness of 0.4 mm are resistant to: Acetone: 480 min Butyl acetate: 60 min Ethyl acetate: 170 min Xylene: 42 min Butyl rubber gloves with a thickness of 0.4 mm are solvent resist

Butyl rubber gloves with a thickness of 0.4 mm are solvent resistant for 42- 480 minutes. As protective measure, we recommend that users and responsible persons for work safety assume solvent resistance length of 42 minutes. Considering the data in section 3 of this SDS, one can assume longer resistance length in particular cases.

• Eye protection: Not required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and ca General Information	nemicai properties	
Appearance:		
Form:	Aerosol	
Colour:	According to product specification	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range	Not applicable, as aerosol.	
Flash point:	Not applicable, as aerosol.	
Flammability (solid, gas):	Not applicable.	
Ignition temperature:	470 °C (878 °F)	
Decomposition temperature:	Not determined.	
Explosive properties:	Not determined.	
Explosion limits:		
Lower:	1.7 Vol %	
Upper:	12 Vol %	
Density at 20 °C (68 °F):	0.7 g/cm ³ (5.8 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
Partition coefficient: n-octanol/water:	Not determined.	

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		(Contd. of page 5)
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	96.9 %	
VOC(EC)		
	678.6 g/l	
· VOC-EU%	96.94 %	
· 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

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• Thermal decomposition / conditions to be avoided: No decomposition if used 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: No dangerous decomposition products known.

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:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	>20 mg/m3 (rat)

· Primary irritant effect:

· Skin corrosion/irritation

Causes skin irritation.

• 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.

· Additional toxicological information:

· CMR effects (carcinogenity, 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

May cause drowsiness or dizziness.

· 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.

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Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC50/48 h 3 mg/l (daphnia magna / Wasserfloh) EC50/28 h 30 mg/l (Pseudokirchneriella Subcapitata) LC50/96 h 11.4 mg/l (oncorhynchus mykiss / Regehogenforelle) 11.2.2 Persistence and degradability No further relevant information available. 12.3 Bioaccumulative potential No further relevant information available. 12.4 Persistence and degradability No further relevant information available. 12.4 Resistence and degradability No further relevant information available. Ecotoxical effects: Remark: Toxic for fish Additional ecological information: General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms 12.5 Results of PBT and PPB assessment PBT: Not applicable. 12.6 Other adverse effects No further relevant information available. SECTION 13: Disposal considerations 13.1 Waste treatment methods Recommendation Must noit be disposed together with househ	12.1 Toxicity			
EC50 / 48 h 3 mg/l (daphnia magna / Wasserfloh) EC50 / 72 h 30 mg/l (Pseudokirchneriella Subcapitata) LC50 / 96 h 11.4 mg/l (oncorhynchus mykiss / Regenbogenforelle) 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. 12.4 Mobility in soil No further relevant information available. 12.4 Mobility in soil No further relevant information available. Ecotoxical effects: Remark: Toxic for fish Additional ecological information: General notes: Water hazard class 2 (Gernan Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms 12.5 Results of PBT and PPB assessment PBT: Not applicable. 12.6 Other adverse effects No further relevant information available. SECTION 13: Disposal considerations 13.1 Waste treatment methods Recommendation Must not be disposed together with household garbage. Do not al	Aquatic toxicity:			
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ADR, IMDG, IATA UN1950	vPvB: Not app 12.6 Other adv SECTION 1 13.1 Waste tree Recommendati Must not be dis European wast 08 01 11* was 15 01 04 met 15 01 10* pac Uncleaned pac Recommendati Disposal must Disposal must	icable. arse effects No further relevant information available. B: Disposal considerations tment methods on posed together with household garbage. Do not allow product to reach sewage system. e catalogue e paint and varnish containing organic solvents or other hazardous substances illic packaging aging containing residues of or contaminated by hazardous substances taging: on: e made according to official regulations. e made according to official regulations.		

· IMDG · IATA

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AEROSOLS, ENVIRONMENTALLI HAZAK AEROSOLS, MARINE POLLUTANT AEROSOLS, flammable

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14.3 Transport hazard class(es)	
ADR	
2	
Class Label	2 5F Gases. 2.1
	2.1
IMDG	
AV.	
Class	2.1
Label	2.1
ΙΑΤΑ	
2	
V	
Class Label	2.1
Label	2.1
14.4 Packing group	und month of a
ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	Vag
Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Gases.
Hazard identification number (Kemler code):	-
EMS Number:	F-D,S-U
Stowage Code	SW1 Protected from sources of heat.
	SW22 For AEROSOLS with a maximum capacity of 1 litr
	Category A. For AEROSOLS with a capacity above 1 litr Category B. For WASTE AEROSOLS: Category C, Clean
	of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litr
	Segregation as for class 9. Stow "separated from" class
	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.
14.7 Transport in bulk according to Annex II o	
Marpol and the IBC Code	y Not applicable.
Transport/Additional information:	••
ADR Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
Zuerren gammes (ZZ)	Not permitted as Excepted Quantity
Transport category	2

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· Tunnel restriction code	D
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
· UN ''Model Regulation'':	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

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

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

• Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t

- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 500 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.

· National regulations:

· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

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

H220 Extremely flammable gas. H225 Highly flammable liquid and vapour. H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. · 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) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) 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)

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LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Flam. Gas 1A: Flammable gases – Category 1A Aerosol 1: Aerosols – Category 1 Press. Gas (Comp.): Gases under pressure – Compressed gas Press. Gas (Liq.): Gases under pressure – Liquefied gas Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 *** Data compared to the previous version altered.**

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