

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Grizzly Bohr-Schneidöl 500ml

Print date: 18.11.2014

Product code: 11AFX39060003

Page 1 of 11

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

1.1. Product identifier

Grizzly Bohr-Schneidöl 500ml

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company name:	Ferdinand Gross GmbH & Co. KG	
Street:	Daimlerstraße 8	
Place:	D-70771 Leinfelden-Echterdingen	
Telephone:	+49(0)711 / 1604 - 0	Telefax: +49(0)711 / 1604 - 2609
e-mail:	info@schrauben-gross.de	
Internet:	www.schrauben-gross.de	

1.4. Emergency telephone number: + 49 (0) 30 / 30 686 790 (Poison Centre Berlin)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: F+ - Extremely flammable
 R phrases:
 Extremely flammable.
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

GHS classification

Hazard categories:
 Aerosol: Aerosol 1
 Skin corrosion/irritation: Skin Irrit. 2
 Hazardous to the aquatic environment: Aquatic Chronic 3
 Hazard Statements:
 Extremely flammable aerosol.
 Pressurised container: May burst if heated.
 Causes skin irritation.
 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Signal word: Danger
 Pictograms: GHS02-GHS07



Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Grizzly Bohr-Schneidöl 500ml

Print date: 18.11.2014

Product code: 11AFX39060003

Page 2 of 11

P260	Do not breathe Aerosol.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
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.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
921-024-6	Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, < 5% n-hexane	10 - < 15 %
	F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-38-51-53-65-67	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
01-2119475514-35		
203-777-6	n-hexane	0.1 - < 1 %
110-54-3	Repr. Cat. 3, F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-62-48/20-65-38-67-51-53	
601-037-00-0	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 2; H225 H361f H315 H336 H373 H304 H411	
272-028-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	0.1 - < 1 %
68649-42-3	Xi - Irritant, N - Dangerous for the environment R38-41-51-53	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411	
224-235-5	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	0.1 - < 1 %
4259-15-8	Xi - Irritant, N - Dangerous for the environment R41-51-53	
	Eye Dam. 1, Aquatic Chronic 2; H318 H411	
01-2119493635-27		

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Never give anything by mouth to an unconscious person or a person with cramps. Remove persons to safety.

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Grizzly Bohr-Schneidöl 500ml

Print date: 18.11.2014

Product code: 11AFX39060003

Page 3 of 11

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

Headache, nausea, dizziness, fatigue, skin irritation

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), Foam, Extinguishing powder.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Vapours can form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Grizzly Bohr-Schneidöl 500ml

Print date: 18.11.2014

Product code: 11AFX39060003

Page 4 of 11

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on storage compatibility

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

Further information on storage conditions

Protect from frost. Protect against direct sunlight.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, < 5% n-hexane		1500		TWA (8 h)	
106-97-8	Butane	600	1450		STEL (15 min) TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
110-54-3	n-Hexane	20	72		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

Additional advice on limit values

- a no restriction
- b End of exposure or shift
- c in long-term exposure: after several shifts
- d prior to next shift

TWA (EC): time-weighted average

U: Urea

8.2. Exposure controls**Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Grizzly Bohr-Schneidöl 500ml

Print date: 18.11.2014

Product code: 11AFX39060003

Page 5 of 11

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Aerosol
 Colour: red brown
 Odour: bitter almonds.

Test method

pH-Value (at 20 °C): not determined DIN 19268

Changes in the physical state

Melting point: not determined
 Initial boiling point and boiling range: -40 °C
 Sublimation point: No information available.
 Softening point: No information available.
 Flash point: -80 °C

Flammability

Solid: not applicable
 Gas: not applicable

Lower explosion limits: 1 vol. %

Upper explosion limits: 11 vol. %

Ignition temperature: No information available.

Auto-ignition temperature

Solid: not applicable
 Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidizing.

Vapour pressure: not determined

Vapour pressure: No information available.

Density (at 20 °C): 0,825 g/cm³ DIN 51757

Bulk density: No information available.

Water solubility: insoluble

Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: No information available.

Viscosity / kinematic: No information available.

Flow time: No information available.

Vapour density: not determined

Evaporation rate: not determined

Solvent separation test: No information available.

Solvent content: No information available.

9.2. Other information

Solid content: not determined

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Grizzly Bohr-Schneidöl 500ml

Print date: 18.11.2014

Product code: 11AFX39060003

Page 6 of 11

Density Data apply to the technically active substance.
pressure - bar (20°C)

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable, Ignition hazard.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

Further information

Do not mix with other chemicals.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, < 5% n-hexane				
	oral	LD50	> 5000 mg/kg	Rat	
	dermal	LD50	> 2000 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50	> 23,3 mg/l	Rat	
110-54-3	n-hexane				
	dermal	LD50	> 2000 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50	> 31,86 mg/l	Rat	
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts				
	oral	LD50	3100 mg/kg	Rat	
	dermal	LD50	5000 mg/kg	Rabbit	
4259-15-8	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)				
	oral	LD50	>3100 mg/kg	Rat	
	dermal	LD50	>2000 - <5000 mg/kg	Rabbit	

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Grizzly Bohr-Schneidöl 500ml

Print date: 18.11.2014

Product code: 11AFX39060003

Page 7 of 11

Irritation and corrosivity

Causes skin irritation.

Sensitising effects

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

No indication of human carcinogenicity.

No indications of human germ cell mutagenicity exist.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No information available.

Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, < 5% n-hexane					
	Acute fish toxicity	LC50	> 1-10 mg/l	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50 mg/l	> 10 - 100	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	> 1-10 mg/l	48 h	Daphnia magna	
110-54-3	n-hexane					
	Acute fish toxicity	LC50	> 10 mg/l	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50	9,9 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	30 mg/l	48 h	Daphnia magna	
	Algae toxicity	NOEC	2,077 mg/l	3 d	Pseudokirchneriella subcapitata	
	Acute bacteria toxicity		(48,39 mg/l)	0 h	Tetrahymena pyriformis	
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts					
	Acute fish toxicity	LC50	>1 mg/l	96 h	Brachydanio rerio (zebra-fish)	
	Acute algae toxicity	ErC50	>1 mg/l	96 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50	>1 mg/l	48 h	Daphnia magna	
4259-15-8	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)					
	Acute fish toxicity	LC50	>2-10 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50	>240 mg/l	72 h	Pseudomonas putida	
	Acute crustacea toxicity	EC50	>2-10 mg/l	48 h	Daphnia magna	

12.2. Persistence and degradability

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Grizzly Bohr-Schneidöl 500ml

Print date: 18.11.2014

Product code: 11AFX39060003

Page 8 of 11

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
110-54-3	n-hexane			
	OECD Guideline 301 F	81%	28	
	Easily biodegradable (concerning to the criteria of the OECD)			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, < 5% n-hexane	3,4 - 5,2
110-54-3	n-hexane	3,9

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances
Classified as hazardous waste.**Waste disposal number of used product**160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances
Classified as hazardous waste.**Waste disposal number of contaminated packaging**

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number:** UN 1950**14.2. UN proper shipping name:** AEROSOLS

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Grizzly Bohr-Schneidöl 500ml

Print date: 18.11.2014

Product code: 11AFX39060003

Page 9 of 11

14.3. Transport hazard class(es): 2
14.4. Packing group: -
 Hazard label: 2.1
 Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1 L
 Transport category: 2
 Tunnel restriction code: D

Other applicable information (land transport)

Limited quantity: E0

Inland waterways transport (ADN)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
 Hazard label: 2.1
 Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1 L

Other applicable information (inland waterways transport)

Limited quantity: E0

Marine transport (IMDG)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1
 Marine pollutant: no
 Special Provisions: 63, 190, 277, 327, 344, 959
 Limited quantity: 1000 mL
 EmS: F-D, S-U

Other applicable information (marine transport)

Limited quantity: E0

Air transport (ICAO)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS, flammable
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1
 Special Provisions: A145 A167 A802
 Limited quantity Passenger: 30 kg G
 IATA-packing instructions - Passenger: 203
 IATA-max. quantity - Passenger: 75 kg
 IATA-packing instructions - Cargo: 203
 IATA-max. quantity - Cargo: 150 kg

Other applicable information (air transport)

Limited quantity: E0

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Grizzly Bohr-Schneidöl 500ml

Print date: 18.11.2014

Product code: 11AFX39060003

Page 10 of 11

Passenger-LQ: Y203

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Warning: Flammable gases.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

1999/13/EC (VOC): No information available.

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Employment restrictions: Observe employment restrictions for young people.

Water contaminating class (D): 1 - slightly water contaminating

Additional information

94/69/EC (21st ATP). The benzene content of the product is less than 0.1%. It applies the annotation P. Classification and labeling as carcinogenic is not necessary.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**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)
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IATA: International Air Transport Association
 IMDG: International Maritime Code for Dangerous Goods
 GHS: Globally Harmonized 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)
 DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level
 WEL (UK): Workplace Exposure Limits
 TWA (EC): Time-Weighted Average
 ATE: Acute Toxicity Estimate
 STEL (EC) Short Term Exposure Limit
 LC50: Lethal Concentration
 EC50: half maximal Effective Concentration
 ErC50: means EC50 in terms of reduction of growth rate

Relevant R-phrases (Number and full text)

11	Highly flammable.
38	Irritating to skin.
41	Risk of serious damage to eyes.
48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
51	Toxic to aquatic organisms.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Grizzly Bohr-Schneidöl 500ml

Print date: 18.11.2014

Product code: 11AFX39060003

Page 11 of 11

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|----|---|
| 53 | May cause long-term adverse effects in the aquatic environment. |
| 62 | Possible risk of impaired fertility. |
| 65 | Harmful: may cause lung damage if swallowed. |
| 67 | Vapours may cause drowsiness and dizziness. |

Relevant H- and EUH-phrases (Number and full text)

- | | |
|-------|--|
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H336 | May cause drowsiness or dizziness. |
| H361f | Suspected of damaging fertility. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)