

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

EW592-AE4 Pro-Tec R 110 Schmierstoff

Version: 1.6

Revision Date 28.07.2012

Print Date 12.03.2013

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

1.1 Product identifier

Trade name : EW592-AE4 Pro-Tec R 110 Schmierstoff

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

Use of the Sub-
stance/Mixture : Special lubricant

1.3 Details of the supplier of the safety data sheet

Company : hebro chemie GmbH
Rostocker Str. 40
41199 Mönchengladbach

Contact person : Wolfgang Schaffers
Telephone : +49 (0) 2166 6009-0
Telefax : +49 (0) 2166 6009-99

Contact person product safety : Abteilung Produktsicherheit
E-mail address : info-produktsicherheit@gmx.de

1.4 Emergency telephone number

: Giftinformationszentrum Erfurt:
+49 (0) 361 730 730

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (67/548/EEC, 1999/45/EC)

Extremely flammable	R12: Extremely flammable.
Irritant	R38: Irritating to skin.
Dangerous for the environment	R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R67: Vapours may cause drowsiness and dizziness.

2.2 Label elements

Labelling according to EC Directives (1999/45/EC)

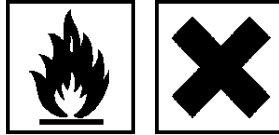
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Hazard pictograms :



Extremely
flammable

Irritant

R-phrases(s) :

R12
R38
R52/53

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

R67

Vapours may cause drowsiness and dizziness.

S-phrases(s) :

S23
S26

Do not breathe spray.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S29/56

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

S51

Use only in well-ventilated areas.

Special labelling of certain mixtures :

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.
Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.
Keep away from sources of ignition - No smoking.
Keep out of the reach of children.

2.3 Other hazards

The information required is contained in this Material Safety Data Sheet.

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Chemical nature : Lubricant based on highly purified ester oils

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]

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Naphtha (petroleum), hydrotreated light (Heptane)	64742-49-0 265-151-9 01-2119475515-33	F; R11 Xi; R38 Xn; R65 R67 N; R51/53 Nota H, Nota P	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	>= 20 - < 25
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WEL substance :

Butane	106-97-8 203-448-7	F+; R12 Nota C	Flam. Gas 1; H220 Press. Gas	>= 10 - < 25
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For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.
For the full text of the Notas mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Call a physician if symptoms occur.
- If inhaled : Provide fresh air.
Keep patient warm and at rest.
If symptoms persist, call a physician.
- In case of skin contact : Take off immediately all contaminated clothing.
Wash skin thoroughly with soap and water or use recognized skin cleanser.
Do NOT use solvents or thinners.
- In case of eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
If eye irritation persists, consult a specialist.
- If swallowed : Call a physician immediately.
Keep at rest.
Do NOT induce vomiting.

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Combustion may cause:
Carbon dioxide (CO₂)
Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self contained breathing apparatus for fire fighting if necessary.

Further information : Use water spray to cool unopened containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Provide sufficient air exchange and/or exhaust in work rooms.
Remove all sources of ignition.
Do not breathe vapour.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Inform the relevant authorities if it enters sewers, aquatic environment or soil.

6.3 Methods and materials for containment and cleaning up

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Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See chapter 8 and 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours or spray mist.
When using do not eat, drink or smoke.
For personal protection see section 8.
Take precautionary measures against static discharges.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.
Keep away from sources of ignition - No smoking. Keep away from children.

Advice on protection against fire and explosion : Vapours are heavier than air and may spread along floors.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.
Follow the water regulations.

Further information on storage conditions : Keep only in the original container in a cool, well-ventilated place.
Keep away from sources of ignition - No smoking.
Keep away from heat.

Advice on common storage : Incompatible with oxidizing agents.

7.3 Specific end use(s)

Specific use(s) : Special lubricant

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control pa-	Update	Basis
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hebrochemie
GmbH



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			Parameters		
Butane	106-97-8	TWA	600 ppm 1,450 mg/m ³	2007-08-01	GB EH40
Further information	:	Carc: Capable of causing cancer and/or heritable genetic damage. The identified substances include those which: - are assigned the risk phrases 'R45: May cause cancer'; 'R46: may cause heritable genetic damage'; 'R49: May cause cancer by inhalation' or - a substance or process listed in Schedule 1 of COSHH. Carcinogenic only applies if butane contains more than 0.1% of buta-1,3-diene			
	106-97-8	STEL	750 ppm 1,810 mg/m ³	2007-08-01	GB EH40
Further information	:	Carc: Capable of causing cancer and/or heritable genetic damage. The identified substances include those which: - are assigned the risk phrases 'R45: May cause cancer'; 'R46: may cause heritable genetic damage'; 'R49: May cause cancer by inhalation' or - a substance or process listed in Schedule 1 of COSHH. Carcinogenic only applies if butane contains more than 0.1% of buta-1,3-diene			

DNEL/DMEL

Naphtha (petroleum), hydrotreated light (Heptane)

: End Use: DNEL, Industrial use, Workers
Exposure routes: Skin contact
Potential health effects: Long-term exposure
Value: 300 mg/kg

End Use: DNEL, Industrial use, Workers
Exposure routes: Inhalation
Potential health effects: Long-term exposure
Value: 2085 mg/m³

8.2 Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection : Do not breathe gas/fumes/vapour/spray.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Eye protection : Safety glasses with side-shields

Skin and body protection : protective suit

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Protective measures : Handle in accordance with good industrial hygiene and safety practice.
Follow the skin protection plan.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Inform the relevant authorities if it enters sewers, aquatic environment or soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : aerosol
Colour : yellow
Odour : odourless
Flash point : -2 °C
Ignition temperature : 265 °C
Lower explosion limit : 0.6 %(V)
Upper explosion limit : 10.9 %(V)

pH : not applicable

Density : 0.67 g/cm³
at 20 °C
Method: DIN 51757

Water solubility : 20 g/l

9.2 Other information

Explosivity : In use, may form flammable/explosive vapour-air mixture.

SECTION 10: Stability and reactivity

10.1 Reactivity

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No hazards to be specially mentioned.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

Risk of decomposition. : In case of fire hazardous decomposition products may be produced such as:
Carbon dioxide (CO₂)
Carbon monoxide
nitrogen oxides (NO_x)
Smoke

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Naphtha (petroleum), hydro-treated light (Heptane) : LD50: > 5,840 mg/kg
Species: rat
Method: OECD Test Guideline 401

Acute inhalation toxicity

Naphtha (petroleum), hydro-treated light (Heptane) : LC50: > 23.3 mg/l
Species: rat
Method: OECD Test Guideline 403

Acute dermal toxicity

Naphtha (petroleum), hydro-treated light (Heptane) : LD50: > 2,920 mg/kg
Species: rat
Method: OECD Test Guideline 402

Skin corrosion/irritation

Skin irritation : Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

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May cause eye and skin irritation.

Serious eye damage/eye irritation

Eye irritation : The liquid splashed in the eyes may cause irritation and reversible damage.

Respiratory or skin sensitization

Sensitisation : This information is not available.

Carcinogenicity

Remarks : Not classifiable as a human carcinogen.

Aspiration hazard

Aspiration toxicity
Naphtha (petroleum), hydrotreated light (Heptane) : The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Neurological effects
Naphtha (petroleum), hydrotreated light (Heptane) : Concentration substantially above the admissible concentration at the workplace can damage the central nervous system and may cause collapse.

Further information : Health injuries are not known or expected under normal use.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish : no data available

Toxicity to fish
Naphtha (petroleum), hydrotreated light (Heptane) : Limit Test LC50: 13.4 mg/l
Exposure time: 96 h
Species: *Oncorhynchus mykiss* (rainbow trout)
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

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Naphtha (petroleum), hydrotreated light (Heptane) : Limit Test EC50 (calculated): 3 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Toxicity to algae
Naphtha (petroleum), hydrotreated light (Heptane) : IC50: 10 - 30 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (green algae)
Method: OECD Test Guideline 201

12.2 Persistence and degradability

Biodegradability : no data available

12.3 Bioaccumulative potential

Bioaccumulation : no data available

12.4 Mobility in soil

Mobility : no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Additional ecological information : Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.
Do not let product enter drains.
Do not dispose of with domestic refuse.

Packaging : The hazard and precautionary statements displayed on the label also apply to any residues left in the container.
Do not dispose of with domestic refuse.

Contaminated packaging : Dispose of in accordance with local regulations.

Waste Code : 160504 gases in pressure containers (including halons) containing dangerous substances

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SECTION 14: Transport information

ADR

UN number : 1950
UN proper shipping name : AEROSOLS
Transport hazard class(es) : 2
Classification Code : 5F
Packing instruction (LQ) : LQ2
Limited Quantity (LQ) Inner : 1.00 L
Packaging
Labels : 2.1
Tunnel restriction code : (D)
Environmentally hazardous : no

IATA

UN number : 1950
Description of the goods : AEROSOLS,FLAMMABLE
Class : 2.1
Labels : 2.1

IATA_C

Packing instruction (cargo aircraft) : 203
Environmentally hazardous : no

IATA_P

Environmentally hazardous : no

IMDG

UN number : 1950
Description of the goods : AEROSOLS
Class : 2.1
Labels : 2.1
EmS Number 1 : F-D
EmS Number 2 : S-U
Marine Pollutant : no

RID

UN number : 1950
Description of the goods : AEROSOLS
Transport hazard class(es) : 2
Classification Code : 5F
Hazard identification No : 23
Labels : 2.1
Packing instruction (LQ) : LQ2
Environmentally hazardous : no

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws. Regional or national implementations of GHS may not implement all hazard classes and categories.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

R11	Highly flammable.
R12	Extremely flammable.
R38	Irritating to skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

Full text of H-Statements referred to under sections 2 and 3.

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
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.

Full text of Notas referred to under section 3

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- Nota C** Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In Annex I, a general designation of the following type is sometimes used: "xylenol". In this case the manufacturer or any other person who markets such a substance must state on the label whether the substance is a specific isomer (a) or a mixture of isomers (b). Example: (a) 2,4-dimethylphenol (b) xyleneol (mixture of isomers).
- Nota H** The classification and label shown for this substance applies to the dangerous property(ies) indicated by the risk phrase(s) in combination with the category(ies) of danger shown. The manufacturers, importers and downstream users of this substance shall be obliged to carry out an investigation to make themselves aware of the relevant and accessible data which exists for all other properties to classify and label the substance. The final label shall follow the requirements of section 7 of Annex VI of this Directive.
- Nota P** The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7). When the substance is classified as a carcinogen or mutagen, Note E shall also apply. When the substance is not classified as a carcinogen or mutagen at least the S-phrases (2-)23-24-62 shall apply. This note applies only to certain complex oil-derived substances in Annex I.

Further information

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.