

E525-AE4 hebro®chaast CU

Version: 1.6 Revision Date 21.08.2013 Print Date 22.08.2013

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

1.1 Product identifier

Trade name : E525-AE4 hebro®chaast CU

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.
R66: Repeated exposure may cause skin dryness
or cracking.

2.2 Label elements

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

Hazard pictograms :



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	Extremely flammable	
R-phras(e)s	: R12 R66	Extremely flammable. Repeated exposure may cause skin dryness or cracking.
S-phras(e)s	: S23 S26 S29/56 S51	Do not breathe spray. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. 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 : Preparation based on polyglycols, lubricants and organic solvents

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Naphtha (petroleum), hydrotreated heavy (Benzol < 0,1 %)	64742-48-9 265-150-3 01-2119457273-39	Xn; R65 R66	Asp. Tox. 1; H304	>= 20 - < 25

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		Nota H, Nota P, Nota L		
Propane	74-98-6 200-827-9 01-2119486944-21	F+; R12	Flam. Gas 1; H220 Press. Gas	>= 10 - < 25
Isobutane	75-28-5 200-857-2	F+; R12 Nota C	Flam. Gas 1; H220 Press. Gas	>= 10 - < 25
Distillates (petroleum), acid-treated middle;	64742-13-8 265-113-1	Xn; R65-R66 Nota H, Nota N	Asp. Tox. 1; H304	>= 1 - < 2.5

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 min-

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utes, holding the eyelids apart.
If eye irritation persists, consult a specialist.

If swallowed : Call a physician immediately.
Keep at rest.
Do NOT induce vomiting.

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.

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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

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 uses

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Specific use(s) : Special lubricant

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Components	CAS-No.	Value	Control parameters	Update	Basis
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				

8.2 Exposure controls**Engineering measures**

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

Personal protective equipmentRespiratory 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 : brown
Odour : mild
Flash point : < 1 °C
Ignition temperature : 240 °C
Lower explosion limit : 0.6 %(V)
Upper explosion limit : 10.9 %(V)

pH : not applicable

Density : 0.72 g/cm³
at 20 °C
Method: DIN 51757

Water solubility : completely soluble

9.2 Other information

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

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SECTION 10: Stability and reactivity

10.1 Reactivity

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), hydrotreated heavy (Benzol < 0,1 %)
: LD50: > 2,000 mg/kg
Species: rat

Acute dermal toxicity

Naphtha (petroleum), hydrotreated heavy (Benzol < 0,1 %)
: LD50: > 2,000 mg/kg
Species: rabbit

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 sensitisation

Sensitisation : This information is not available.

Carcinogenicity

Remarks : Not classifiable as a human carcinogen.

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

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 informa- : Do not flush into surface water or sanitary sewer system.

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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

SECTION 14: Transport information

ADR

- UN number : 1950
UN proper shipping name : AEROSOLS
Transport hazard class(es) : 2
Classification Code : 5F
Limited Quantity (LQ) Inner : 1.00 L
Packaging
Maximum quantity : 30.00 KG
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
Packing instruction (LQ) : Y203
Maximum quantity : 150.00 KG
Environmentally hazardous : no

IATA_P

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Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203
Maximum quantity : 75.00 KG
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 Number : 23
Labels : 2.1
Limited Quantity (LQ) Inner : 1.00 L
Packaging
Maximum quantity : 30.00 KG
Environmentally hazardous : no

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

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R12 Extremely flammable.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.

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

H220 Extremely flammable gas.
H304 May be fatal if swallowed and enters airways.

Full text of Notas referred to under section 3

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) xylene (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 L The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346. This note applies only to certain complex oil derived substances in Annex I.

Nota N The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen. This note applies only to certain complex oil derived substances in Annex I.

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.