according to Regulation (EC) No. 1907/2006

G002-B21 hebro®protect 3



Version: 2.5 Revision Date: 13.06.2019 Print Date: 14.06.2019

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

1.1 Product identifier

Trade name : G002-B21 hebro®protect 3

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

Use of the Sub- : Corrosion inhibitor

stance/Mixture

Contact person Telephone

E-mail address

Telefax

1.3 Details of the supplier of the safety data sheet

Company : hebro chemie- ZN der Rockwood Specialties Group

GmbH

Rostocker Str. 40

41199 Mönchengladbach : Zentrale hebro chemie : +49 (0) 2166 6009-0 : +49 (0) 2166 6009-99

: msds.de@hebro-chemie.de

Contact person product safety
Telephone

Abteilung Produktsicherheit
+49(0)2166 6009-311

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 (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single ex-

posure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated

exposure, Category 1

H372: Causes damage to organs through pro-

longed or repeated exposure.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-

ways.

Long-term (chronic) aquatic hazard, Cat-

egory 2

H411: Toxic to aquatic life with long lasting effects.

according to Regulation (EC) No. 1907/2006

G002-B21 hebro®protect 3



Version: 2.5 Revision Date: 13.06.2019 Print Date: 14.06.2019

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms









Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or re-

peated exposure.

H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard

Statements

EUH066

Repeated exposure may cause skin dryness or

cracking.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

P331 Do NOT induce vomiting.

P362 + P364 Take off contaminated clothing and wash it

before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Sulfonic acids, petroleum, calcium salts

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Preparation of aliphatic hydrocarbons and waxes

according to Regulation (EC) No. 1907/2006

G002-B21 hebro®protect 3



Version: 2.5 Revision Date: 13.06.2019 Print Date: 14.06.2019

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Not Assigned 919-446-0 01-2119458049-33	Flam. Liq. 3; H226 STOT SE 3; H336 STOT RE 1; H372 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 Note P	>= 65 - < 80
Sulfonic acids, petroleum, calcium salts	61789-86-4 263-093-9 01-2119488992-18	Skin Sens. 1B; H317	>= 2.5 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled : Provide fresh air.

Keep patient warm and at rest. If symptoms persist, call a physician.

In case of skin contact : Take off all contaminated clothing immediately.

After contact with skin, wash immediately with plenty of soap

and water.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Seek medical advice.

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 : Erythema

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

For specialist advice physicians should contact the Poisons

Information Service.

according to Regulation (EC) No. 1907/2006

G002-B21 hebro®protect 3



Version: 2.5 Revision Date: 13.06.2019 Print Date: 14.06.2019

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry powder Water spray jet

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Hazardous decomposition products formed under fire condi-

tions.

Carbon monoxide Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Further information : Use water spray to cool unopened containers.

Suppress (knock down) gases/vapours/mists with a water

spray jet.

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 : Ensure adequate ventilation.

Do not breathe vapours, aerosols. Remove all sources of ignition.

6.2 Environmental precautions

Environmental precautions : Do not empty into drains.

Inform the relevant authorities if it enters sewers, aquatic envi-

ronment or soil.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible ab-

sorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in 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 2n

and

according to Regulation (EC) No. 1907/2006

G002-B21 hebro®protect 3



Version: 2.5 Revision Date: 13.06.2019 Print Date: 14.06.2019

13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Keep away from open flames, hot surfaces and sources of

ignition.

Take precautionary measures against static discharges.

Avoid contact with skin and eyes.
Do not breathe vapours or spray mist.
When using do not eat, drink or smoke.
For personal protection see section 8.

Advice on protection against :

fire and explosion

Vapours are heavier than air and may spread along floors.

Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Follow the water regulations. Keep only in the original container in a cool, well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent

leakage.

Further information on stor-

age conditions

Keep only in the original container in a cool, well-ventilated place. Keep away from heat. Keep away from sources of ignition - No smoking. Keep at temperatures between 5°C and

40°C.

Advice on common storage : Incompatible with oxidizing agents.

7.3 Specific end use(s)

Specific use(s) : Corrosion inhibitor

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rub-

ber category III according to EN 374.

Remarks : The choice of an appropriate glove does not only depend on

its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this

according to Regulation (EC) No. 1907/2006

G002-B21 hebro®protect 3



Version: 2.5 Revision Date: 13.06.2019 Print Date: 14.06.2019

has to be observed.

Skin and body protection : Protective suit

Respiratory protection : When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Recommended Filter type:

ABEK-filter

The filter class for the respirator must be suitable for the max-

imum expected contaminant concentration

(gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-

contained breathing apparatus must be used.

Protective measures : Follow the skin protection plan.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : brown

Odour : mild

Odour Threshold : No data available

pH : Not applicable

Melting point/freezing point : No data available

Boiling point/boiling range : Method: DIN 51751

Flash point : 41.0 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : Upper flammability limit

6.50 %(V)

Lower explosion limit : Lower flammability limit

0.60 %(V)

Vapour pressure : < 1 hPa (20 °C)

Information taken from reference works and the literature.

Relative vapour density : No data available

Relative density : No data available

Density : 0.83 g/cm³ (20 °C)

Method: DIN 51757

according to Regulation (EC) No. 1907/2006

G002-B21 hebro®protect 3



Version: 2.5 Revision Date: 13.06.2019 Print Date: 14.06.2019

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : 240 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 12 mm²/s (20 °C)

Flow time : No data available

Explosive properties : Vapours may form explosive mixture with air.

Oxidizing properties : No data available

9.2 Other information

Other physico-chemical properties: This information is not available/not determined.

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

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 : Product is stable under appropriate usage.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition

: Carbon dioxide (CO2), carbon monoxide (CO), oxides of ni-

products trogen (NOx), dense black smoke.

according to Regulation (EC) No. 1907/2006

G002-B21 hebro®protect 3



Version: 2.5 Revision Date: 13.06.2019 Print Date: 14.06.2019

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

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

Acute toxicity

Components:

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Acute oral toxicity : LD50 (Rat): > 15,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 3,400 mg/kg

Skin corrosion/irritation

Product:

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

Serious eye damage/eye irritation

Product:

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

Respiratory or skin sensitisation

Product:

Remarks: This information is not available.

Germ cell mutagenicity

Product:

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

Carcinogenicity

Product:

ment

Carcinogenicity - Assess-

: Not classifiable as a human carcinogen.

Reproductive toxicity

Product:

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

STOT - single exposure

Product:

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

according to Regulation (EC) No. 1907/2006

G002-B21 hebro®protect 3



Version: 2.5 Revision Date: 13.06.2019 Print Date: 14.06.2019

STOT - repeated exposure

Product:

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

Aspiration toxicity

Product:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: According to many years of experience, there are no known harmful effects when handled properly.

Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology studies for the product are not available.

Components:

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Toxicity to fish EC50 (Oncorhynchus mykiss (rainbow trout)): 10 - 30 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 10 - 20 mg/l

Exposure time: 48 h

: EC50 (Algae): 4.6 - 10 mg/l Toxicity to algae

Exposure time: 72 h

12.2 Persistence and degradability

Product:

: Remarks: No data available Biodegradability

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

according to Regulation (EC) No. 1907/2006

G002-B21 hebro®protect 3



Version: 2.5 Revision Date: 13.06.2019 Print Date: 14.06.2019

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

12.6 Other adverse effects

Product:

Additional ecological infor-

mation

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

Avoid subsoil penetration.

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.

Contaminated packaging : Dispose of in accordance with local regulations.

Waste Code : 07 07 04 : other organic solvents, washing liquids and mother

liquors

SECTION 14: Transport information

14.1 UN number

ADR : UN 1268
RID : UN 1268
IMDG : UN 1268
IATA : UN 1268

14.2 UN proper shipping name

ADR : PETROLEUM DISTILLATES, N.O.S.

RID : PETROLEUM DISTILLATES, N.O.S.

IMDG : PETROLEUM DISTILLATES, N.O.S.

IATA : Petroleum distillates, n.o.s.

14.3 Transport hazard class(es)

 ADR
 : 3

 RID
 : 3

 IMDG
 : 3

 IATA
 : 3

14.4 Packing group

according to Regulation (EC) No. 1907/2006

G002-B21 hebro®protect 3



Version: 2.5 Revision Date: 13.06.2019 Print Date: 14.06.2019

ADR

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

RID

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

IMDG

Packing group : III Labels : 3

EmS Code : F-E, S-E

Remarks : "IMDG-Code segregation group not applicable".

366

IATA (Cargo)

Packing instruction (cargo

aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passen: 355

ger aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Flammable Liquids

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

Refer to protective measures listed in sections 7 and 8.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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 imple-

ment all hazard classes and categories.

according to Regulation (EC) No. 1907/2006

G002-B21 hebro®protect 3



Version: 2.5 Revision Date: 13.06.2019 Print Date: 14.06.2019

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H226 : Flammable liquid and vapour.

H304 : May be fatal if swallowed and enters airways.

H317 : May cause an allergic skin reaction. H336 : May cause drowsiness or dizziness.

H372 : Causes damage to organs through prolonged or repeated

exposure if inhaled.

H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard Flam. Liq. : Flammable liquids Skin Sens. : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information : The information provided is based on our current knowledge

according to Regulation (EC) No. 1907/2006

G002-B21 hebro®protect 3



 Version: 2.5
 Revision Date: 13.06.2019
 Print Date: 14.06.2019

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.

GB / EN