

Version: 2.5

Revision Date: 04.01.2023

Print Date: 05.01.2023

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

1.1 Product identifier

Trade name : M591-K01 hebro®derma gel plus

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

Use of the Sub- : Hand Sanitizer
stance/Mixture

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
Contact person : Zentrale hebro chemie
Telephone : +49 (0) 2166 6009-0
Telefax : +49 (0) 2166 6009-99
Contact person product safety : Abteilung Produktsicherheit
Telephone : +49(0)2166 6009-311
E-mail address : msds.de@hebro-chemie.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 (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

Precautionary statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open

Version: 2.5

Revision Date: 04.01.2023

Print Date: 05.01.2023

flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P243 Take action to prevent static discharges.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 100 %
 The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 100 %
 The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 100 %
 The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 37 %

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Preparation based on alcohols, tensides and water
 Cosmetics

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|--|--|---|--------------------------|
| Ethanol | 64-17-5 200-578-6 01-2119457610-43 | specific concentration limit Eye Irrit. 2; H319 >= 50 % | >= 50 - < 65 |
| Substances with a workplace exposure limit : | | | |
| Propan-2-ol | 67-63-0 200-661-7 603-117-00-0 01-2119457558-25 | | >= 2.5 - < 10 |
| Glycerol | 56-81-5 200-289-5 01-2119471987-18 | | >= 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 : 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

None known.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.
-

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 : none

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : No information available.

5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting 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.
-

Version: 2.5

Revision Date: 04.01.2023

Print Date: 05.01.2023

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.
Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions : Do not let product enter drains.
Inform the relevant authorities if it enters sewers, aquatic environment or soil.
Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent 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.
Soak up with liquid binder (sand, kieselguhr, acid binder, universal binder).

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 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.

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 : Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Observe label precautions.

Further information on storage conditions : Keep away from sources of ignition - No smoking. Keep at temperatures between - 7°C and 40°C.

Advice on common storage : Incompatible with oxidizing agents.

7.3 Specific end use(s)

Specific use(s) : Skin protective agent for reduction of skin softening, especially for gloves wearer. Hygienic hand disinfectant. Biocidal product. Registration number. Do not get into eyes, on mucous membranes and open wounds.

Version: 2.5

Revision Date: 04.01.2023

Print Date: 05.01.2023

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|-------------|---|-------------------------------|--------------------------------------|---------|
| Ethanol | 64-17-5 | TWA | 1,000 ppm 1,920 mg/m ³ | GB EH40 |
| | Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. | | | |
| Propan-2-ol | 67-63-0 | TWA | 400 ppm 999 mg/m ³ | GB EH40 |
| | | STEL | 500 ppm 1,250 mg/m ³ | GB EH40 |
| Glycerol | 56-81-5 | TWA (Mist) | 10 mg/m ³ | GB EH40 |
| | Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. | | | |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|----------------|---------|-----------------|----------------------------|-----------------------|
| Ethanol | Workers | Inhalation | Long-term systemic effects | 950 mg/m ³ |
| Propan-2-ol | Workers | Inhalation | Long-term systemic effects | 500 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 888 mg/kg bw/day |
| Glycerol | Workers | Inhalation | Long-term local effects | 56 mg/m ³ |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|----------------|---------------------------|-------------|
| Propan-2-ol | Fresh water | 140.9 mg/l |
| | Marine water | 140.9 mg/l |
| | Sewage treatment plant | 2251 mg/l |
| | Sediment | 552 mg/kg |
| Glycerol | Soil | 28 mg/kg |
| | Fresh water | 0.885 mg/l |
| | Marine water | 0.0885 mg/l |
| | Intermittent use/release | 8.85 mg/l |
| | Sewage treatment plant | 1000 mg/l |
| | Fresh water sediment | 3.3 mg/kg |
| | Marine sediment | 0.33 mg/kg |
| | Soil | 0.141 mg/kg |

8.2 Exposure controls

Engineering measures

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

Personal protective equipment

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

Hand protection

Version: 2.5 Revision Date: 04.01.2023 Print Date: 05.01.2023

| | | |
|--------------------------|---|--|
| Material | : | Chemical resistant gloves made of butyl rubber or nitrile rubber 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 has to be observed. |
| Skin and body protection | : | Work uniform or laboratory coat. |
| Respiratory protection | : | Use respirator when performing operations involving potential exposure to vapour of the product. |
| Protective measures | : | Follow the skin protection plan. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | | |
|--|---|-----------------------------------|
| Physical state | : | liquid |
| Colour | : | colourless |
| Odour | : | alcohol-like |
| | : | not determined |
| Boiling point/boiling range | : | > 78 °C |
| Upper explosion limit / Upper flammability limit | : | not determined |
| Lower explosion limit / Lower flammability limit | : | not determined |
| Flash point | : | < 21 °C |
| Auto-ignition temperature | : | 425 °C |
| pH | : | 6.5 - 7.5 (20 °C) |
| Viscosity | | |
| Viscosity, dynamic | : | 4,500 mPa*s (20 °C) |
| Viscosity, kinematic | : | 5114 mm ² /s |
| Flow time | : | > 100 sec. Cross section: 6 mm |
| Solubility(ies) | | |
| Water solubility | : | soluble |
| Partition coefficient: n-octanol/water | : | Not applicable |

Version: 2.5

Revision Date: 04.01.2023

Print Date: 05.01.2023

| | | |
|-------------------------|---|--|
| Vapour pressure | : | ca. 57 hPa (20 °C) Information taken from reference works and the literature. |
| Density | : | 0.88 g/cm ³ (20 °C) |
| Relative vapour density | : | not determined |

9.2 Other information

| | | |
|--|---|--|
| Explosives | : | Vapours may form explosive mixture with air. |
| Substances and mixtures, which in contact with water, emit flammable gases | : | In use, may form flammable/explosive vapour-air mixture. |

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 products : Carbon monoxid, carbon dioxid.
Smoke
Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Components:

Ethanol:

Acute oral toxicity : LD50 (Rat): 10,470 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 124.7 mg/l
Exposure time: 4 h

Version: 2.5

Revision Date: 04.01.2023

Print Date: 05.01.2023

Test atmosphere: vapour
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: OECD Test Guideline 402

Propan-2-ol:

Acute oral toxicity : LD50 (Rat): 5,840 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 10000 ppm
Exposure time: 6 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 13,900 mg/kg
Method: OECD Test Guideline 402

Glycerol:

Acute oral toxicity : LD50 (Rat): 12,600 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 18,700 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.

Carcinogenicity

Product:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

11.2 Information on other hazards

Further information

Product:

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

Version: 2.5

Revision Date: 04.01.2023

Print Date: 05.01.2023

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

Components:

Ethanol:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 13,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 12,340 mg/l
aquatic invertebrates Exposure time: 48 h
- Toxicity to algae/aquatic : EC50 (Algae): 275 mg/l
plants Exposure time: 72 h
Method: OECD Test Guideline 201

Propan-2-ol:

- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8,970 mg/l
Exposure time: 48 h
- LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 9,714 mg/l
aquatic invertebrates Exposure time: 24 h
- Toxicity to algae/aquatic : EC50 (Scenedesmus subspicatus): > 100 mg/l
plants Exposure time: 72 h
- Toxicity to microorganisms : IC50 (Bacteria): > 100 mg/l

Glycerol:

- Toxicity to fish : LC50 (Carassius auratus (goldfish)): > 5,000 mg/l
Exposure time: 96 h
- LC50 (Leuciscus idus (Golden orfe)): > 10,000 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
aquatic invertebrates Exposure time: 24 h
- Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): 2,900
plants mg/l
- Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10,000 mg/l

Version: 2.5

Revision Date: 04.01.2023

Print Date: 05.01.2023

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

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 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological information : 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.
Since emptied containers retain product residues (vapour and/or liquid) follow all MSDS/label warnings after container is emptied.

Waste Code : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 1993

Version: 2.5

Revision Date: 04.01.2023

Print Date: 05.01.2023

RID : UN 1993

IMDG : UN 1993

IATA : UN 1993

14.2 UN proper shipping name

ADR : FLAMMABLE LIQUID, N.O.S.
(Ethanol, Propan-2-ol)

RID : FLAMMABLE LIQUID, N.O.S.
(Ethanol, Propan-2-ol)

IMDG : FLAMMABLE LIQUID, N.O.S.
(Ethanol, Propan-2-ol)

IATA : Flammable liquid, n.o.s.
(Ethanol, Propan-2-ol)

14.3 Transport hazard class(es)

| | Class | Subsidiary risks |
|-------------|-------|------------------|
| ADR | : 3 | |
| RID | : 3 | |
| IMDG | : 3 | |
| IATA | : 3 | |

14.4 Packing group

ADR
Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3
Tunnel restriction code : (D/E)
Remarks : Special Provision 640D

RID
Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3
Remarks : Special Provision 640D

IMDG
Packing group : II
Labels : 3
EmS Code : F-E, S-E
Remarks : "IMDG-Code segregation group not applicable".

IATA (Cargo)
Packing instruction (cargo aircraft) : 364
Packing instruction (LQ) : Y341
Packing group : II
Labels : Flammable Liquids

Version: 2.5

Revision Date: 04.01.2023

Print Date: 05.01.2023

IATA_P (Passenger)

Packing instruction (passenger aircraft) : 353
Packing instruction (LQ) : Y341
Packing group : II
Labels : Flammable Liquids

14.5 Environmental hazards

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

Other regulations:

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

M591-K01 hebro®derma gel plus



A brand of BASF – we create chemistry

Version: 2.5

Revision Date: 04.01.2023

Print Date: 05.01.2023

Road; AIIC - Australian Inventory of Industrial Chemicals; 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; TECI - Thailand Existing Chemicals 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 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.

Classification of the mixture:

Flam. Liq. 2 H225

Classification procedure:

Based on product data or assessment

GB / EN