

Safety data sheet Page: 1/9

according to 1907/2006/EC, Article 31 and 2020/878/EC

Printing date: 15.05.2023 **Version number 10 (replaces version 9) Revision: 15.05.2023

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

1.1 Product identifier

Trade name: AVILUB METACORIN 833

Application / Use: Corrosion inhibitor

Article number: 6833

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

Application of the substance / the preparation: Anticorrosion fluid

Uses advised against: No further relevant information available.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: HERMANN BANTLEON GmbH

Blaubeurer Strasse 32 D - 89077 Ulm

Tel: +49 (0) 731 / 3990-0 Fax: +49 (0) 731 / 3990-10

Further information obtainable from: Department: Product safety

Contact specialist: hse@bantleon.de

1.4 Emergency telephone number: In case of emergency ONLY:

During working hours (CET):

+49 (0) 731 / 39 90 260 or +49 (0) 731 / 39 90 250 Emergency response (24 hours) CHEMTREC:

1-800-424-9300 / +1-703-741-5970 +(44)-203-8073798 (United Kingdom) +(31)-858880596 (Netherlands) +(61)-290372994 (Australia) 0-800-983-611 (South Africa) +1 703-527-3887 (USA & Canada)

000-800-100-7141 (India) 1-800-815-308 (Malaysia)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

2.2 Label elements

Hazard pictograms

Labelling according to Regulation (EC) No

1272/2008

The product is classified and labelled according to the CLP regulation.

GHSC

Signal word Danger

Hazard-determining components of labelling: Hydrocarbons, C11-C12, < 2% aromatics

Hydrocarbons, C11-C14, isoalkanes Hydrocarbons, C11-C13, isoalkanes

Hazard statements H304 May be fatal if swallowed and enters airways.

H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulations.

Additional information: EUH066 Repeated exposure may cause skin dryness or cracking.

EUH208 Contains Calcium sulfonate. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture

| Dangerous components: | Dangerous components: | | |
|---------------------------|--|----------|--|
| | Hydrocarbons, C11-C12, < 2% aromatics | 50-100% | |
| Reg.nr.: 01-2119472146-39 | Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413, EUH066 | | |
| EC number: 927-285-2 | Hydrocarbons, C11-C14, isoalkanes | 10-25% | |
| Reg.nr.: 01-2119480162-45 | Asp. Tox. 1, H304, EUH066 | | |
| EC number: 920-901-0 | Hydrocarbons, C11-C13, isoalkanes | 10-25% | |
| Reg.nr.: 01-2119456810-40 | Asp. Tox. 1, H304, EUH066 | | |
| EC number: 939-603-7 | Calcium sulfonate | ≥0.1-≤5% | |
| Reg.nr.: 01-2119978241-36 | Skin Sens. 1B, H317 | | |
| | Specific concentration limit: Skin Sens. 1B; H317: C ≥ 10 % | | |

Additional information:

The wording of the hazard symbols and H-phrases is specified in section 16 if

dangerous ingredients are mentioned.

Components with threshold limit values are mentioned at section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Take affected persons out into the fresh air.

Position and transport stably in side position.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist,

consult a doctor.

After swallowing: Do not induce vomiting; call for medical help immediately.

Information for doctor: Treat symptomatically.

4.2 Most important symptoms and effects, both

acute and delayed:

Breathing difficulty
Headache

Drowsiness
Dizziness
Unconsciousness

Nausea

If swallowed or in case of vomiting, danger of entering the lungs.

Hazards Danger of pulmonary oedema.

Danger of pneumonia.

4.3 Indication of any immediate medical attention

and special treatment needed:

Monitor circulation, possible shock treatment.

Later observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, sand, extinguishing powder.

Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing

agents:

Do not use water with full jet.

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5.2 Special hazards arising from the substance or

mixture:

In case of fire, the following can be released:

Nitrogen oxides (NOx) Carbon monoxide (CO) Sulphur oxide (SOx)

Vapors are heavier than air and spread along ground. Product floats on the firefighting water and can ignite again.

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with

official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage

system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and

emergency procedures Ensure adequate ventilation.

Particular danger of slipping on leaked/spilled product.

Keep away from ignition sources.

Wear protective clothing.

6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.

Prevent from spreading (e.g. by damming-in or oil barriers).

Inform respective authorities in case of seepage into water course or sewage

system.

6.3 Methods and material for containment and

cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal

binders, sawdust).

Dispose of the material collected according to regulations.

6.4 Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Restrict the quantity stored at the work place.

Ensure good interior ventilation, especially at floor level (fumes are heavier than

air).

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Do not inhale gases / fumes / aerosols.

Information about fire - and explosion protection: Use explosion-proof apparatus / fittings and spark-proof tools.

Fire class EN 2: B

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Handling: When handling product in drums use safety footwear and suitable tools. At work

please do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and

receptacles: Store only in the original receptacle.

Provide floor trough without outlet. Prevent any seepage into the ground.

Use only receptacles specifically permitted for this substance/product.

Information about storage in one common storage

facility:

Store away from foodstuffs.

Store away from oxidising agents.

Recommended storage temperature 0 to 30 °C

Further information about storage conditions:

Maximum 2 years

Shelf life from date of dispatch:

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Suitable material or coating: Stainless Steel

Polyethylene Polypropylene Teflon

Not suitable material or coating: EPDM

Polystyrene

Natural- and butyl rubber

7.3 Specific end use(s): For more information see technical information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

| DIVEL | DNELS | | |
|---------|---------------------------------------|-------------------------|--|
| Calciu | Calcium sulfonate | | |
| Derma | DNEL worker (long term exposure) | 25 mg/kg bw/day (human) | |
| Inhalat | tive DNEL worker (long term exposure) | 35.26 mg/m³ (human) | |
| PNECs | | | |
| Calciu | Calcium sulfonate | | |
| PNEC | PNEC 1,000 mg/l (sewage plant) | | |
| | 0.1 mg/l (sea water) | | |

0.1 mg/l (fresh water)
Ingredients with biological limit values:

Additional Occupational Exposure Limit Values for

possible hazards during processing: No

Additional information: The lists valid during the making were used as basis.

If formation of steam, mist or aerosols take place the concentration in the air has to $\frac{1}{2}$

be kept at the lowest possible level.

8.2 Exposure controls

Appropriate engineering controlsNo further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid close or long term contact with the skin.

Respiratory protection: No respiratory protection is ordinarily required under normal conditions of use.

Select a filter suitable for combined particulate/ gases and organic vapours (boiling point > 65 ° C, AP2, EN 14387), if exposure limit is exceeded or when aerosol or

mist is formed.

Hand protection Safety gloves of nitrile rubber or viton.

Preventive skin protection by use of skin-protecting agents is recommended.

Material of gloves Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the

application.

Penetration time of glove material: The exact break trough time has to be found out by the manufacturer of the

protective gloves and has to be observed.

Value for the permeation: Level = 6 (480 min)
Goggles recommended during refilling.

Eye/face protectionGoggles recommended during refilling.Body protection:Solvent resistant protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state Fluid

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Colour: Brown
Odour: Mild

Melting point/freezing point:Not determined.Boiling point or initial boiling point and boiling rangeNot determined.FlammabilityNot applicable.

Lower and upper explosion limit

Lower: 0.5 Vol % (typ.) **Upper:** 6.0 Vol % (typ.)

Flash point: >61 °C (DIN EN ISO 2719)

Auto-ignition temperature:

Decomposition temperature:

PH

Not determined.

Not determined.

Not applicable.

Viscosity:

Kinematic viscosity at 40 °C <7 mm²/s (ASTM D7042)

Solubility

water: Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log value)

Not determined.

Vapour pressure:

Not determined.

Density and/or relative density

Density at 15 °C: 0.780 g/cm³ (DIN 51 757)

Relative density
Vapour density
Not determined.
Relative gas density
Not determined.
Not determined.

9.2 Other information

Appearance:

Form: Fluid

Important information on protection of health and environment,

and on safety.

Explosives

Explosive properties: The product shows no danger of explosion, but it may build explosive

Void

mixtures with air (by vaporisation, oil mist formation, heating above the

flash point).

Change in condition

Drip point:Not determined.Evaporation rateNot determined.

Information with regard to physical hazard classes

Flammable gases Void Void **Aerosols** Void Oxidising gases Gases under pressure Void Flammable liquids Void Flammable solids Void Self-reactive substances and mixtures Void Pyrophoric liquids Void Pyrophoric solids Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water Void

contact with water Void
Oxidising liquids Void
Oxidising solids Void
Organic peroxides Void
Corrosive to metals Void
Desensitised explosives Void

SECTION 10: Stability and reactivity

10.1 Reactivity See 10.2 to 10.6

10.2 Chemical stability:Stable at normal conditions.

Thermal decomposition / conditions to be avoided: Avoid contact with heat, sparks, flames and all other sources of ignition.

10.3 Possibility of hazardous reactions: Reacts with strong oxidising agents.

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10.4 Conditions to avoidAvoid high temperatures and direct sunlight.

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in

Regulation (EC) No 1272/2008

These statements are based on data for components of the material or for similar

materials.

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

| LD/LC50 v | LD/LC50 values relevant for classification: | | |
|--|---|----------------------------------|-------------------|
| Hydrocart | ydrocarbons, C11-C12, < 2% aromatics | | |
| Oral | LD50 | >5,000 mg/kg (rat) (OECD 401) | |
| Dermal | LD50 | >5,000 mg/kg (rabbit) (OECD 402) | |
| Inhalative | LC50/4h | >5.6 mg/l (rat) (OECD 403) | |
| Hydrocart | Hydrocarbons, C11-C14, isoalkanes | | |
| Oral | LD50 | >5,000 mg/kg (rat) (OECD 401) | |
| Dermal | LD50 | >5,000 mg/kg (rabbit) (OECD 402) | |
| Inhalative | LC50/4h | >5 mg/l (rat) (OECD 403) | |
| Hydrocart | Hydrocarbons, C11-C13, isoalkanes | | |
| Oral | LD50 | >5,000 mg/kg (rat) (OECD 401) | |
| Dermal LD50 >5,000 mg/kg (rabbit) (OECD 402) Inhalative LC50/4h >5.6 mg/l (rat) (OECD 403) | | >5,000 mg/kg (rabbit) (OECD 402) | |
| | | Calcium s | Calcium sulfonate |
| Oral | LD50 | >5,000 mg/kg (rat) | |
| Dermal | LD50 | >5,000 mg/kg (rabbit) | |
| 011 | Ckin power in a limitation | | |

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Vapor, spray or fumes can cause eye irritation (burning, redness and

lachrymatory).

by inhalation: Inhalation of vapors above the workplace should be avoided to limit monitoring.

High vapor/aerosol concentrations cause anesthetic. There can be disturbances of

the central nervous system.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

There are no indications for a sensitising potential of the product. Contains

substances with sensitising potential in low concentration.

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

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

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

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

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

Aspiration hazard May be fatal if swallowed and enters airways.

Other information (about experimental toxicology):

After swallowing: Swallow and particularly subsequent vomiting can lead to lung

damage - pneumonia - pulmonary edema.

Subacute to chronic toxicity: Prolonged and/or repeated contact may cause defatting of the skin which can lead

to dermatitis and may make the skin more susceptible to irritation and penetration

by other materials.

Additional toxicological information: The product shows the following dangers according to the calculation method of

Regulation (EC) No 1272/2008 as issued in the latest version:

Asp. Tox. 1

Can lead to skin sensitisation in case of sensitive individuals. These statements are based on data for components of the material or for similar materials.

11.2 Information on other hazards

Germ cell mutagenicity Carcinogenicity

Reproductive toxicity

STOT-single exposure STOT-repeated exposure

Endocrine disrupting propertiesThe product does not contain substances with endocrine disrupting properties.

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SECTION 12: Ecological information

12.1 Toxicity The product shows the following dangers according to the calculation method of

Regulation (EC) No 1272/2008 as issued in the latest version:

Aquatic Chronic 4

Aquatic toxicity: Based of labelling toxic effects are to be expected on aquatic organisms.

| Hydrocarbons, | ons, C11-C12, < 2% aromatics | | |
|-----------------|---|--|--|
| NOELR/21d >1 | ELR/21d >1 mg/l (Daphnia magna) | | |
| Hydrocarbons, | Hydrocarbons, C11-C14, isoalkanes | | |
| NOEC/21d 1 m | NOEC/21d 1 mg/l (Daphnia magna) | | |
| Hydrocarbons, (| arbons, C11-C13, isoalkanes | | |
| EC50/48h >1,0 | 000 mg/l (Daphnia magna) (OECD 202) | | |
| LC50/96h >1,0 | 000 mg/l (Oncorhynchus mykiss) (OECD 203) | | |
| Calcium sulfona | sulfonate | | |
| EC50/48h >10 | EC50/48h >100 mg/l (Daphnia magna) (OECD 202) | | |
| EC50/72h >10 | 00 mg/l (Pseudokirchneriella subcapitata) | | |
| LL50/96h >10 | 00 mg/l (Oncorhynchus mykiss) | | |
| 1000 | a and de mandels life. | | |

12.2 Persistence and degradability

12.3 Bioaccumulative potential 12.4 Mobility in soil

No further relevant information available.

No further relevant information available.

The product is not soluble in water. If it enters soil, it will adsorb to soil particles

and will not be mobile.

12.5 Results of PBT and vPvB assessment

PBT: vPvB: Not applicable. Not applicable.

12.6 Endocrine disrupting properties

12.7 Other adverse effects:

The product does not contain substances with endocrine disrupting properties.

Remark:

Additional ecological information:

General notes:

Harmful to aquatic organisms.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous

for water

Do not allow product to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation Must not be disposed together with household garbage. Do not allow product to

reach sewage system.

European waste catalogueThe recommended waste code refers to the product as delivered.

The assignment of the waste code number according to the application is to be conducted in individual cases by the waste producer based on the European Waste Code Catalogue in coordination with the regional disposal company and

with aspects specific to the sector and process in mind.

| | 07 06 04* other organic solvents, washing liquids and mother liquors | | |
|---|--|---|--|
| Ī | HP5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity | |
| Ī | HP14 | HP14 Ecotoxic | |

Uncleaned packaging: Empty packing completely. Handover to authorized disposal company.

Recommendation: Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after thorough

and proper cleaning.

SECTION 14: Transport information

14.1 UN number or ID number

ADR, IMDG, IATA

Void

14.2 UN proper shipping name

ADR, IMDG, IATA

Void

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14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class Void

14.4 Packing group

ADR, IMDG, IATA Void

 14.5 Environmental hazards:
 Not applicable.

 14.6 Special precautions for user
 Not applicable.

 14.7 Maritime transport in bulk according to IMO instruments
 Not applicable.

 UN "Model Regulation":
 Void

SECTION 15: Regulatory information

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

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment –

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

National regulations:

Information about limitation of use: Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be

observed.

Waterhazard class: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous

for water

Directive 2010/75/EC on the limitation of emissions

of volatile organic compounds, VOC (EC): ~88.0 %

Ordinance on the Incentive Tax on Volatile Organic

Compounds, Switzerland, VOC content: ~87.0 %

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Recommendation of the manufacturer:

Absorb spilled liquid media with AVILUB SUPER-SORB and dispose in accordance with local regulations. For skin protection when handling water-mixable and not-water-mixable media we recommend application of COVER SKIN.

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

Relevant phrases H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H413 May cause long lasting harmful effects to aquatic life. EUH066 Repeated exposure may cause skin dryness or cracking.

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| Classification according to Regulation (EC) No 1272/2008 | | |
|---|--|--|
| Aspiration hazard | Expert judgement | |
| Hazardous to the aquatic environment - long-term (chronic) aquatic hazard | The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. | |

Department issuing SDS:Department Product safety

Contact: hse@bantleon.de

Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

PBT: Persistent, Bioaccumulative and Toxic

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement

Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised 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: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Skin Sens. 1B: Skin sensitisation – Category 1B Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

^{*} Data compared to the previous version altered.

^{**}Information about the version number: Replaces all previous versions.