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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Non water miscible coolant

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|------------------------------------|-----------------------------------|
| Company name: | Zeller+Gmelin GmbH & Co. KG | |
| Street: | Schlossstr. 20 | |
| Place: | D-73054 Eislingen | |
| Telephone: | +49 (0) 7161 / 802-0 | Telefax: +49 (0) 7161 / 802-290 |
| e-mail: | info@zeller-gmelin.de | |
| Contact person: | Uwe Allmendinger | Telephone: +49 (0) 7161 / 802-297 |
| e-mail: | produktsicherheit@zeller-gmelin.de | |
| Internet: | www.zeller-gmelin.de | |
| Responsible Department: | Produktsicherheit / Product Safety | |

1.4. Emergency telephone number:Germany: +49 (0) 7161 / 802-400
In England and Wales: NHS Direct: 0845 4647 or 111 In Scotland: NHS 24 - 08454 24 24 24 In Republic of Ireland: 01 809 2166**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

2.3. Other hazards

Results of PBT and vPvB assessment: not applicable.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Fatty oil-containing mixture.

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Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|---|--------------|------------------|---------------|
| | EC No | Index No | REACH No | |
| | Classification according to Regulation (EC) No. 1272/2008 [CLP] | | | |
| 100-37-8 | 2-diethylaminoethanol | | | 0.1 - < 0.3 % |
| | 202-845-2 | 603-048-00-6 | 01-2119488937-14 | |
| | Flam. Liq. 3, Acute Tox. 3, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, STOT SE 3; H226 H331 H311 H302 H314 H318 H335 | | | |
| 25307-17-9 | 2,2'-(octadec-9-enylimino)bisethanol | | | 0.1 - < 0.3 % |
| | 246-807-3 | | 01-2119510876-35 | |
| | Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1; H302 H314 H400 H410 | | | |

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures
4.1. Description of first aid measures
General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Remove contaminated, saturated clothing immediately.

After inhalation

Remove casualty to fresh air and keep warm and at rest.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Let water be drunk in little sips (dilution effect). Call a physician immediately. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

When in doubt or if symptoms are observed, get medical advice.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures
5.1. Extinguishing media
Suitable extinguishing media

alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO₂).

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products: Carbon monoxide Carbon dioxide (CO₂). Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Do not allow to enter into soil/subsoil.

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures

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See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Clean contaminated articles and floor according to the environmental legislation.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Advice on safe handling

Use personal protection equipment. Do not eat, drink or smoke when using this product. Provide fresh air. Handle and open container with care. Conditions to avoid: generation/formation of aerosols.

Advice on protection against fire and explosion

No special measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels

Protect against: Frost. Keep away from heat. Protect against direct sunlight. Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|--------------------------------------|----------------|----------|-------------------------|
| 100-37-8 | 2-diethylaminoethanol | | | |
| Worker DNEL, long-term | | inhalation | local | 24 mg/m ³ |
| Worker DNEL, acute | | inhalation | local | 24 mg/m ³ |
| 25307-17-9 | 2,2'-(octadec-9-enylimino)bisethanol | | | |
| Worker DNEL, long-term | | inhalation | systemic | 1,76 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 0,25 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 0,621 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,179 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,179 mg/kg bw/day |

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PNEC values

| CAS No | Substance | Value |
|--|--------------------------------------|----------------|
| Environmental compartment | | |
| 100-37-8 | 2-diethylaminoethanol | |
| Marine water | | 0,0044 mg/l |
| Freshwater sediment | | 0,475 mg/l |
| Marine sediment | | 0,0475 mg/l |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 0,069 mg/kg |
| 25307-17-9 | 2,2'-(octadec-9-enylimino)bisethanol | |
| Freshwater | | 0,000214 mg/l |
| Marine water | | 0,0000214 mg/l |
| Freshwater sediment | | 1,692 mg/kg |
| Marine sediment | | 0,1692 mg/kg |
| Secondary poisoning | | 2 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 1,5 mg/l |
| Soil | | 5 mg/kg |

8.2. Exposure controls
Appropriate engineering controls

See chapter 7. No additional measures necessary.

Protective and hygiene measures

When using do not eat, drink, smoke, sniff.

Eye/face protection

Eye glasses with side protection.

Hand protection

Wear suitable gloves. Recommended glove articles: DIN EN 374. Suitable material: NBR (Nitrile rubber). Breakthrough time (maximum wearing time): > 480 min (Thickness of the glove material: 0.4 mm). Breakthrough times and swelling properties of the material must be taken into consideration. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Skin protection

Protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. When splashes or fine mist form, a permitted breathing apparatus suitable for these purposes must be used. Suitable respiratory protection apparatus: Filtering Half-face mask (DIN EN 149), e.g. FFA P / FFP3.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

| | |
|-----------------|----------------|
| Physical state: | Liquid |
| Colour: | brownish |
| Odour: | characteristic |

Test method

| | |
|-----------|----------------|
| pH-Value: | not applicable |
|-----------|----------------|

Changes in the physical state

| | |
|--|----------------|
| Melting point: | not determined |
| Initial boiling point and boiling range: | not determined |

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| | |
|--------------------------------------|---|
| Pour point: | not determined |
| Flash point: | > 170 °C EN ISO 2592 |
| Lower explosion limits: | 0,6 vol. % |
| Upper explosion limits: | 6,5 vol. % |
| Ignition temperature: | not determined |
| Decomposition temperature: | No information available. |
| Vapour pressure: (at 20 °C) | < 0,1 hPa |
| Density (at 15 °C): | 0,96 g/cm ³ DIN EN ISO 12185 |
| Water solubility: | insoluble |
| Partition coefficient: | not determined |
| Viscosity / dynamic: | not determined |
| Viscosity / kinematic: (at 40 °C) | 80 mm ² /s ASTM D 7042 |
| Flow time: | not determined |
| Vapour density: | not determined |
| Evaporation rate: | not determined |

9.2. Other information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No information available.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

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

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| CAS No | Chemical name | | | | |
|------------|--------------------------------------|-----------------|------------|----------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 100-37-8 | 2-diethylaminoethanol | | | | |
| | oral | LD50 1300 mg/kg | Rat | | |
| | dermal | LD50 885 mg/kg | Guinea pig | | |
| | inhalation (4 h) vapour | LC50 4,6 mg/l | Rat | | |
| | inhalation aerosol | ATE 0,5 mg/l | | | |
| 25307-17-9 | 2,2'-(octadec-9-enylimino)bisethanol | | | | |
| | oral | LD50 1260 mg/kg | Rat | OECD 401 | |

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Practical experience
Other observations

Keeping to the general worker's protection rules and the industrial hygienics, there is no risk in handling this product through the personnel.

SECTION 12: Ecological information
12.1. Toxicity

There are no data available on the mixture itself.

12.2. Persistence and degradability

There are no data available on the mixture itself.

| CAS No | Chemical name | | | |
|------------|---|-----------|----|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 25307-17-9 | 2,2'-(octadec-9-enylimino)bisethanol | | | |
| | Biodegradation | 79 % | 26 | |
| | Readily biodegradable (according to OECD criteria). | | | |
| | Chemical oxygen demand (COD) | 2530 mg/g | | |

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|--------------------------------------|---------|
| 100-37-8 | 2-diethylaminoethanol | 0,21 |
| 25307-17-9 | 2,2'-(octadec-9-enylimino)bisethanol | 3,40 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|------------|--------------------------------------|------|---------|--------|
| 25307-17-9 | 2,2'-(octadec-9-enylimino)bisethanol | 23,4 | | |

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12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

Waste disposal number of waste from residues/unused products

120199 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; wastes not otherwise specified

Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Non-contaminated packages may be recycled. Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.
Marine pollutant: NO

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No data available

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

No data available

SECTION 15: Regulatory information

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulatory information

 2010/75/EU (VOC): 0 %
 Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information
Changes

This data sheet contains changes from the previous version in section(s): 2,15.

Abbreviations and acronyms

ADR: Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations concerning the International Carriage of Dangerous Goods by Rail)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organization
 CAS: Chemical Abstracts Service (a division of the American Chemical Society)
 DNEL/DMEL: Derived No-Effect Level / Derived Minimal Effect Level
 PNEC: Predicted No Effect Concentration
 WEL (UK): Workplace Exposure Limits
 TWA (EC): Time-Weighted Average
 STEL (EC): Short Term Exposure Limit
 ATE: Acute Toxicity Estimate
 LD50: Lethal Dose, 50% (median lethal dose)
 LC50: Lethal Concentration, 50% (median lethal concentration)
 EC50: half maximal Effective Concentration
 ErC50: EC50 in terms of reduction of growth rate
 AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
 VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Aquatic Chronic 3; H412 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|------|---|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Further Information

Safety Data Sheet according to COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

 The above information describes exclusively the safety requirements of the product and is based on our

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present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)