

## Safety Data Sheet

MITAN Mineralöl GmbH

### Alpine Frostschutz Scheibenklar Konzentrat

Revision date: 01.02.2021

Product code: MIT0010

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

### 1.1. Product identifier

Alpine Frostschutz Scheibenklar Konzentrat

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

#### Use of the substance/mixture

Anti-freeze and de-icing products

#### Uses advised against

No information available.

### 1.3. Details of the supplier of the safety data sheet

|                          |                                    |                              |
|--------------------------|------------------------------------|------------------------------|
| Company name:            | MITAN Mineralöl GmbH               |                              |
| Street:                  | Industriestraße 8                  |                              |
| Place:                   | D-49577 Ankum                      |                              |
| Telephone:               | +49 (0)5462/7470-50                | Telefax: +49 (0)5462/7470-33 |
| e-mail:                  | info@mitan-oil.de                  |                              |
| e-mail (Contact person): | sicherheitsdatenblatt@mitan-oil.de |                              |
| Internet:                | www.mitan-oil.de                   |                              |

### 1.4. Emergency telephone number:

Giftinformationszentrum Nord (Göttingen)  
+49 (0)551/19240

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 3

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Flammable liquid and vapour.

Causes serious eye irritation.

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

#### Hazard components for labelling

ethanol; ethyl alcohol

ethanediol; ethylene glycol

Signal word: Warning

#### Pictograms:



#### Hazard statements

H226

Flammable liquid and vapour.

H319

Causes serious eye irritation.

#### Precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

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|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P210           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                   |
| P264           | Wash hands thoroughly after handling.                                                                                            |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.                                    |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313      | If eye irritation persists: Get medical advice/attention.                                                                        |
| P501           | Dispose of contents / container in accordance with official regulations.                                                         |

#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

| CAS No    | Chemical name                                                                                                             |              |                  | Quantity    |
|-----------|---------------------------------------------------------------------------------------------------------------------------|--------------|------------------|-------------|
|           | EC No                                                                                                                     | Index No     | REACH No         |             |
|           | GHS Classification                                                                                                        |              |                  |             |
| 64-17-5   | ethanol, ethyl alcohol                                                                                                    |              |                  | 45 - < 50 % |
|           | 200-578-6                                                                                                                 | 603-002-00-5 | 01-2119457610-43 |             |
|           | Flam. Liq. 2, Eye Irrit. 2; H225 H319                                                                                     |              |                  |             |
| 107-21-1  | ethanediol; ethylene glycol                                                                                               |              |                  | 5 - < 10 %  |
|           | 203-473-3                                                                                                                 | 603-027-00-1 | 01-2119456816-28 |             |
|           | Acute Tox. 4, STOT RE 2; H302 H373                                                                                        |              |                  |             |
| 78-93-3   | butanone; ethyl methyl ketone                                                                                             |              |                  | < 1 %       |
|           | 201-159-0                                                                                                                 | 606-002-00-3 | 01-2119457290-43 |             |
|           | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066                                                              |              |                  |             |
|           | ANIONISCHE TENSIDE, BENZISOTHIAZOLINONE; METHYLISOTHIAZOLINONE; DUFTSTOFFE                                                |              |                  | < 0.1 %     |
|           |                                                                                                                           |              |                  |             |
|           |                                                                                                                           |              |                  |             |
| 5392-40-5 | citral                                                                                                                    |              |                  | < 0.1 %     |
|           | 226-394-6                                                                                                                 | 605-019-00-3 |                  |             |
|           | Skin Irrit. 2, Skin Sens. 1; H315 H317                                                                                    |              |                  |             |
| 138-86-3  | p-Menthadien-1,8(9)                                                                                                       |              |                  | < 0.1 %     |
|           | 205-341-0                                                                                                                 | 601-029-00-7 | 01-2120766421-57 |             |
|           | Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H315 H317 H304 H400 H410 |              |                  |             |
| 8000-41-7 | Terpineol                                                                                                                 |              |                  | < 0.1 %     |
|           | 232-268-1                                                                                                                 |              |                  |             |
|           | Skin Irrit. 2, Eye Irrit. 2; H315 H319                                                                                    |              |                  |             |

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

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#### Specific Conc. Limits, M-factors and ATE

| CAS No   | EC No     | Chemical name                                                                              | Quantity    |
|----------|-----------|--------------------------------------------------------------------------------------------|-------------|
|          |           | Specific Conc. Limits, M-factors and ATE                                                   |             |
| 64-17-5  | 200-578-6 | ethanol, ethyl alcohol                                                                     | 45 - < 50 % |
|          |           | inhalation: LC50 = 95,6 mg/l (vapours); oral: LD50 = 6200 mg/kg                            |             |
| 107-21-1 | 203-473-3 | ethanediol; ethylene glycol                                                                | 5 - < 10 %  |
|          |           | dermal: LD50 = 10600 mg/kg; oral: ATE = 500 mg/kg                                          |             |
| 78-93-3  | 201-159-0 | butanone; ethyl methyl ketone                                                              | < 1 %       |
|          |           | inhalation: LC50 = 34 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2193 mg/kg |             |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Take off contaminated clothing and wash it before reuse.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### After inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

##### After contact with skin

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

In all cases of doubt, or when symptoms persist, seek medical advice.

##### 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

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting. Call a physician immediately.

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

No information available.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Carbon dioxide (CO<sub>2</sub>)

alcohol resistant foam.

Extinguishing powder

Water spray jet

##### Unsuitable extinguishing media

Full water jet

#### 5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

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#### **5.3. Advice for firefighters**

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

In case of fire and/or explosion do not breathe fumes.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Dispose of waste according to applicable legislation.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **General measures**

Remove all sources of ignition.

Provide adequate ventilation.

Do not breathe gas/fumes/vapour/spray.

Avoid contact with skin, eyes and clothes.

Use personal protection equipment.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

#### **6.3. Methods and material for containment and cleaning up**

##### **For containment**

Absorb with liquid-binding material (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**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Use only in well-ventilated areas.

##### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

Vapours can form explosive mixtures with air.

#### **7.2. Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

Keep container tightly closed. Keep/Store only in original container.

Keep in a cool, well-ventilated place.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

##### **Hints on joint storage**

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

#### **7.3. Specific end use(s)**

Anti-freeze and de-icing products

### **SECTION 8: Exposure controls/personal protection**

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#### 8.1. Control parameters

##### Exposure limits (EH40)

| CAS No   | Substance                         | ppm  | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|----------|-----------------------------------|------|-------------------|-----------|---------------|--------|
| 78-93-3  | Butan-2-one (methyl ethyl ketone) | 200  | 600               |           | TWA (8 h)     | WEL    |
|          |                                   | 300  | 899               |           | STEL (15 min) | WEL    |
| 107-21-1 | Ethane-1,2-diol, vapour           | 20   | 52                |           | TWA (8 h)     | WEL    |
|          |                                   | 40   | 104               |           | STEL (15 min) | WEL    |
| 64-17-5  | Ethanol                           | 1000 | 1920              |           | TWA (8 h)     | WEL    |
| 67-63-0  | Propan-2-ol                       | 400  | 999               |           | TWA (8 h)     | WEL    |
|          |                                   | 500  | 1250              |           | STEL (15 min) | WEL    |

##### Biological Monitoring Guidance Values (EH40)

| CAS No  | Substance   | Parameter   | Value     | Test material | Sampling time |
|---------|-------------|-------------|-----------|---------------|---------------|
| 78-93-3 | Butan-2-one | butan-2-one | 70 µmol/L | urine         | Post shift    |

##### DNEL/DMEL values

| CAS No  | Substance                                   | DNEL type                | Exposure route | Effect   | Value                  |
|---------|---------------------------------------------|--------------------------|----------------|----------|------------------------|
| 64-17-5 | ethanol, ethyl alcohol                      | Consumer DNEL, acute     | inhalation     | local    | 950 mg/m <sup>3</sup>  |
|         |                                             | Consumer DNEL, long-term | dermal         | systemic | 206 mg/kg bw/day       |
|         |                                             | Worker DNEL, acute       | inhalation     | local    | 1900 mg/m <sup>3</sup> |
|         |                                             | Consumer DNEL, long-term | inhalation     | systemic | 114 mg/m <sup>3</sup>  |
|         |                                             | Consumer DNEL, long-term | oral           | systemic | 87 mg/kg bw/day        |
|         |                                             | Worker DNEL, long-term   | dermal         | systemic | 343 mg/kg bw/day       |
|         |                                             | Worker DNEL, long-term   | inhalation     | systemic | 950 mg/m <sup>3</sup>  |
| 78-93-3 | butanone; ethyl methyl ketone               | Consumer DNEL, long-term | oral           | systemic | 31 mg/kg bw/day        |
|         |                                             | Consumer DNEL, long-term | dermal         | systemic | 412 mg/kg bw/day       |
|         |                                             | Consumer DNEL, long-term | inhalation     | systemic | 106 mg/m <sup>3</sup>  |
|         |                                             | Worker DNEL, long-term   | dermal         | systemic | 1161 mg/kg bw/day      |
|         |                                             | Worker DNEL, long-term   | inhalation     | systemic | 600 mg/m <sup>3</sup>  |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | Consumer DNEL, long-term | dermal         | systemic | 319 mg/kg bw/day       |
|         |                                             | Consumer DNEL, long-term | inhalation     | systemic | 89 mg/m <sup>3</sup>   |
|         |                                             | Consumer DNEL, long-term | oral           | systemic | 26 mg/kg bw/day        |
|         |                                             | Worker DNEL, long-term   | dermal         | systemic | 888 mg/kg bw/day       |
|         |                                             | Worker DNEL, long-term   | inhalation     | systemic | 500 mg/m <sup>3</sup>  |

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#### PNEC values

| CAS No              | Substance                                   |              |
|---------------------|---------------------------------------------|--------------|
|                     | Environmental compartment                   | Value        |
| 64-17-5             | ethanol, ethyl alcohol                      |              |
| Marine water        |                                             | 0,79 mg/l    |
| Freshwater sediment |                                             | 3,6 mg/kg    |
| 78-93-3             | butanone; ethyl methyl ketone               |              |
| Freshwater          |                                             | 55,8 mg/l    |
| Marine water        |                                             | 55,8 mg/l    |
| Freshwater sediment |                                             | 284,74 mg/kg |
| Marine sediment     |                                             | 287,7 mg/kg  |
| 67-63-0             | propan-2-ol; isopropyl alcohol; isopropanol |              |
| Freshwater          |                                             | 140,9 mg/l   |
| Marine water        |                                             | 140,9 mg/l   |
| Freshwater sediment |                                             | 552 mg/kg    |
| Marine sediment     |                                             | 552 mg/kg    |

#### 8.2. Exposure controls



##### Appropriate engineering controls

Provide adequate ventilation.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

##### Protective and hygiene measures

Take off contaminated clothing. Wash hands and face before breaks and after work and take a shower if necessary.

When using do not eat, drink, smoke, sniff. Keep away from food, drink and animal feedingstuffs. Avoid contact with eyes and skin.

##### Eye/face protection

Wear eye/face protection. (DIN EN 166)

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

##### Skin protection

Personal protection equipment

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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

|                      |                |
|----------------------|----------------|
| Physical state:      | Liquid         |
| Colour:              | blue           |
| Odour:               | characteristic |
| Odour threshold:     | not determined |
| pH-Value (at 20 °C): | 6,5 - 7,0      |

**Changes in the physical state**

|                                                           |                |
|-----------------------------------------------------------|----------------|
| Melting point:                                            | not determined |
| Boiling point or initial boiling point and boiling range: | > 78 °C        |
| Flash point:                                              | > 23 °C        |

**Flammability**

|               |                |
|---------------|----------------|
| Solid/liquid: | not applicable |
| Gas:          | not applicable |

**Explosive properties**

The product is not: Explosive. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

|                         |                |
|-------------------------|----------------|
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |

**Self-ignition temperature**

|        |                |
|--------|----------------|
| Solid: | not applicable |
| Gas:   | not applicable |

|                            |                |
|----------------------------|----------------|
| Decomposition temperature: | not determined |
|----------------------------|----------------|

**Oxidizing properties**

The product is not: oxidising.

|                  |                |
|------------------|----------------|
| Vapour pressure: | not determined |
|------------------|----------------|

|                     |                         |
|---------------------|-------------------------|
| Density (at 20 °C): | 0,927 g/cm <sup>3</sup> |
|---------------------|-------------------------|

|                   |                     |
|-------------------|---------------------|
| Water solubility: | completely miscible |
|-------------------|---------------------|

**Solubility in other solvents**

not determined

|                                        |                |
|----------------------------------------|----------------|
| Partition coefficient n-octanol/water: | not determined |
|----------------------------------------|----------------|

|                          |                |
|--------------------------|----------------|
| Relative vapour density: | not determined |
|--------------------------|----------------|

|                   |                |
|-------------------|----------------|
| Evaporation rate: | not determined |
|-------------------|----------------|

**9.2. Other information**

|                |                |
|----------------|----------------|
| Solid content: | not determined |
|----------------|----------------|

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

Vapours may form explosive mixtures with air.

Flammable liquids

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#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Reacts with : Oxidizing agent

#### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

Formation of toxic gases is possible during heating or in case of fire.

### SECTION 11: Toxicological information

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

##### Acute toxicity

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

| CAS No   | Chemical name                 |                  |         |          |        |
|----------|-------------------------------|------------------|---------|----------|--------|
|          | Exposure route                | Dose             | Species | Source   | Method |
| 64-17-5  | ethanol, ethyl alcohol        |                  |         |          |        |
|          | oral                          | LD50 6200 mg/kg  | Rat     | IUCLID   |        |
|          | inhalation (4 h) vapour       | LC50 95,6 mg/l   | Rat     | RTECS    |        |
| 107-21-1 | ethanediol; ethylene glycol   |                  |         |          |        |
|          | oral                          | ATE 500 mg/kg    |         |          |        |
|          | dermal                        | LD50 10600 mg/kg | Rabbit  | GESTIS   |        |
| 78-93-3  | butanone; ethyl methyl ketone |                  |         |          |        |
|          | oral                          | LD50 >2193 mg/kg | Rat     |          |        |
|          | dermal                        | LD50 >2000 mg/kg | Rabbit  | OECD 402 |        |
|          | inhalation (4 h) vapour       | LC50 34 mg/l     | Rat     |          |        |

##### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: 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.



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#### Aspiration hazard

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

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

No information available.

### SECTION 12: Ecological information

#### 12.1. Toxicity

The product is not: Ecotoxic.

| CAS No  | Chemical name                 |                        |           |                                      |          |        |
|---------|-------------------------------|------------------------|-----------|--------------------------------------|----------|--------|
|         | Aquatic toxicity              | Dose                   | [h]   [d] | Species                              | Source   | Method |
| 64-17-5 | ethanol, ethyl alcohol        |                        |           |                                      |          |        |
|         | Acute crustacea toxicity      | EC50 9268 - 14221 mg/l | 48 h      | Daphnia magna                        | IUCLID   |        |
| 78-93-3 | butanone; ethyl methyl ketone |                        |           |                                      |          |        |
|         | Acute fish toxicity           | LC50 2990 mg/l         | 96 h      | Pimephales promelas (fathead minnow) | OECD 203 |        |
|         | Acute bacteria toxicity       | (1972 mg/l)            |           | Pseudokirchneriella subcapitata      | 72h      |        |

#### 12.2. Persistence and degradability

The product has not been tested.

| CAS No  | Chemical name                                       |       |   |        |
|---------|-----------------------------------------------------|-------|---|--------|
|         | Method                                              | Value | d | Source |
|         | Evaluation                                          |       |   |        |
| 64-17-5 | ethanol, ethyl alcohol                              |       |   |        |
|         | Biodegradation                                      | >70%  | 5 |        |
|         | Readily biodegradable (according to OECD criteria). |       |   |        |

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

| CAS No   | Chemical name                 | Log Pow |
|----------|-------------------------------|---------|
| 64-17-5  | ethanol, ethyl alcohol        | -0,31   |
| 107-21-1 | ethanediol; ethylene glycol   | -1,36   |
| 78-93-3  | butanone; ethyl methyl ketone | <=4     |

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

#### 12.6. Endocrine disrupting properties

No information available.

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#### 12.7. Other adverse effects

No information available.

#### Further information

Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

##### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

|                                          |                                         |
|------------------------------------------|-----------------------------------------|
| <b>14.1. UN number:</b>                  | UN 1987                                 |
| <b>14.2. UN proper shipping name:</b>    | ALCOHOLS, N.O.S. (Ethanol, ethanediol;) |
| <b>14.3. Transport hazard class(es):</b> | 3                                       |
| <b>14.4. Packing group:</b>              | III                                     |
| Hazard label:                            | 3                                       |



|                          |       |
|--------------------------|-------|
| Classification code:     | F1    |
| Special Provisions:      | 274   |
| Limited quantity:        | 5 L   |
| Excepted quantity:       | E1    |
| Transport category:      | 3     |
| Hazard No:               | 30    |
| Tunnel restriction code: | (D/E) |

#### Inland waterways transport (ADN)

|                                          |                                         |
|------------------------------------------|-----------------------------------------|
| <b>14.1. UN number:</b>                  | UN 1987                                 |
| <b>14.2. UN proper shipping name:</b>    | ALCOHOLS, N.O.S. (Ethanol, ethanediol;) |
| <b>14.3. Transport hazard class(es):</b> | 3                                       |
| <b>14.4. Packing group:</b>              | III                                     |
| Hazard label:                            | 3                                       |



|                      |     |
|----------------------|-----|
| Classification code: | F1  |
| Special Provisions:  | 274 |
| Limited quantity:    | 5 L |
| Excepted quantity:   | E1  |

#### Marine transport (IMDG)

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**14.1. UN number:** UN 1987  
**14.2. UN proper shipping name:** ALCOHOLS, N.O.S. (Ethanol, ethanediol;)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Special Provisions: 223, 274  
Limited quantity: 5 L  
Excepted quantity: E1  
EmS: F-E, S-D

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1987  
**14.2. UN proper shipping name:** ALCOHOLS, N.O.S. (Ethanol, ethanediol;)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Special Provisions: A3 A180  
Limited quantity Passenger: 10 L  
Passenger LQ: Y344  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 355  
IATA-max. quantity - Passenger: 60 L  
IATA-packing instructions - Cargo: 366  
IATA-max. quantity - Cargo: 220 L

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

Warning: Combustible liquid.

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### SECTION 15: Regulatory information

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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

2010/75/EU (VOC): 48,878 % (453,1 g/l)

2004/42/EC (VOC): 58,597 % (543,192 g/l)

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Information according to 2012/18/EU  
(SEVESO III):

P5c FLAMMABLE LIQUIDS

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

1 - slightly hazardous to water

**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): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport 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 Harmonized 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

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

## Safety Data Sheet

MITAN Mineralöl GmbH

### Alpine Frostschutz Scheibenklar Konzentrat

Revision date: 01.02.2021

Product code: MIT0010

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SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

| Classification     | Classification procedure |
|--------------------|--------------------------|
| Flam. Liq. 3; H226 | On basis of test data    |
| Eye Irrit. 2; H319 | Calculation method       |

**Relevant H and EUH statements (number and full text)**

|        |                                                                    |
|--------|--------------------------------------------------------------------|
| H225   | Highly flammable liquid and vapour.                                |
| H226   | Flammable liquid and vapour.                                       |
| H302   | Harmful if swallowed.                                              |
| H304   | May be fatal if swallowed and enters airways.                      |
| H315   | Causes skin irritation.                                            |
| H317   | May cause an allergic skin reaction.                               |
| H319   | Causes serious eye irritation.                                     |
| H336   | May cause drowsiness or dizziness.                                 |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| H400   | Very toxic to aquatic life.                                        |
| H410   | Very toxic to aquatic life with long lasting effects.              |
| EUH066 | Repeated exposure may cause skin dryness or cracking.              |

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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