

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Alpine C40 Kühlerfrostschutz

Print date: 14.04.2016

Product code: MIT0048

Page 1 of 8

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

##### 1.1. Product identifier

Alpine C40 Kühlerfrostschutz

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

##### 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:** Gif tinformationszentrum 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:

Acute toxicity: Acute Tox. 4

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazard Statements:

Harmful if swallowed.

May cause damage to organs through prolonged or repeated exposure.

##### 2.2. Label elements

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

###### Hazard components for labelling

ethanediol, ethylene glycol

**Signal word:** Warning

**Pictograms:**



###### Hazard statements

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

###### Precautionary statements

P501 Dispose of contents/container to Dispose of waste according to applicable legislation..

P330 Rinse mouth.

P311 Call a POISON CENTER/doctor.

P301 IF SWALLOWED:

P270 Do not eat, drink or smoke when using this product.

P264 Wash hands thoroughly after handling.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

##### 2.3. Other hazards

No information available.

#### SECTION 3: Composition/information on ingredients

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Alpine C40 Kühlerfrostschutz

Print date: 14.04.2016

Product code: MIT0048

Page 2 of 8

#### **3.2. Mixtures**

##### **Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
107-21-1	ethanediol, ethylene glycol			>90 %
	203-473-3	603-027-00-1		
	Acute Tox. 4; H302			

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

#### **SECTION 4: First aid measures**

##### **4.1. Description of first aid measures**

###### **General information**

Take off immediately all contaminated clothing.

###### **After inhalation**

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.

###### **After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

###### **After ingestion**

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Medical treatment necessary.

##### **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. Water spray jet Extinguishing powder Foam

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

Non-flammable.

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

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

###### **Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Alpine C40 Kühlerfrostschutz

Print date: 14.04.2016

Product code: MIT0048

Page 3 of 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 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

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**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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

No special fire protection measures are necessary.

##### **Further information on handling**

Take precautionary measures against static discharges.

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

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

Keep container tightly closed.

##### **Advice on storage compatibility**

No special measures are necessary.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL

#### 8.2. Exposure controls



##### **Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

##### **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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Alpine C40 Kühlerfrostschutz

Print date: 14.04.2016

Product code: MIT0048

Page 4 of 8

recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing. DIN EN 14605

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Combination filtering device (EN 14387) Typ: A-P2

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state: liquid  
 Colour: violet  
 Odour: characteristic

#### Test method

pH-Value: 8 ASTM D 1287:2011

#### Changes in the physical state

Melting point: -18 °C  
 Initial boiling point and boiling range: 160 °C ASTM D 1120  
 Flash point: > 124 °C DIN EN ISO 2719

#### Flammability

Solid: not applicable  
 Gas: not applicable

Lower explosion limits: 3,4 vol. %  
 Upper explosion limits: 15,1 vol. %  
 Ignition temperature: 420 °C DIN 51794

#### Auto-ignition temperature

Solid: not applicable  
 Gas: not applicable

Decomposition temperature: not determined

#### Oxidizing properties

Not oxidizing.

Vapour pressure: 0,2 hPa  
 (at 20 °C)

Density (at 20 °C): 1,122 g/cm<sup>3</sup> DIN 51757

Water solubility: easily soluble

#### Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / kinematic: 20-30 mm<sup>2</sup>/s DIN 51562  
 (at 20 °C)

Vapour density: not determined

Evaporation rate: not determined

### 9.2. Other information

Solid content: not determined

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Alpine C40 Kühlerfrostschutz**

Print date: 14.04.2016

Product code: MIT0048

Page 5 of 8

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

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

Oxidising agent, strong

**10.5. Incompatible materials**

Oxidising agent, strong

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

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

Harmful if swallowed.

**ATEmix calculated**

ATE (oral) 555,6 mg/kg

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
107-21-1	ethanediol, ethylene glycol				
	oral	ATE	500 mg/kg		
	dermal	LD50	10600 mg/kg	Rabbit	GESTIS

**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.

**STOT-single exposure**

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

**Severe effects after repeated or prolonged exposure**

May cause damage to organs through prolonged or repeated exposure.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**Aspiration hazard**

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

**Additional information on tests**

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

**SECTION 12: Ecological information****12.1. Toxicity**

The product is not: Ecotoxic.

**12.2. Persistence and degradability**

Readily biodegradable (according to OECD criteria).

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Alpine C40 Kühlerfrostschutz

Print date: 14.04.2016

Product code: MIT0048

Page 6 of 8

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
107-21-1	ethanediol, ethylene glycol	-1,36

#### 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. Other adverse effects

No information available.

#### Further information

Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Advice on disposal

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

##### Waste disposal number of waste from residues/unused products

160114 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08); antifreeze fluids containing hazardous substances  
Classified as hazardous waste.

##### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

### 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.

#### Inland waterways transport (ADN)

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.

#### Air transport (ICAO)

14.1. UN number: No dangerous good in sense of this transport regulation.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Alpine C40 Kühlerfrostschutz**

Print date: 14.04.2016

Product code: MIT0048

Page 7 of 8

- 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 dangerous good in sense of this transport regulation.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

No dangerous good in sense of this transport regulation.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2004/42/EC (VOC): 89,99 % (1009,688 g/l)

**Additional information**

To follow: 850/2004/EC, 1107/2009/EC, 649/2012/EC.

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

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****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%

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

H302 Harmful if swallowed.  
H373 May cause damage to organs through prolonged or repeated exposure.

**Further Information**

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



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Alpine C40 Kühlerfrostschutz

Print date: 14.04.2016

Product code: MIT0048

Page 8 of 8

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