

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Alpine Gear Oil 85W140

Print date: 13.07.2016

Product code: MIT0121

Page 1 of 8

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

##### 1.1. Product identifier

Alpine Gear Oil 85W140

##### 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

Giftinformationszentrum Nord (Göttingen)

**number:** +49 (0)551/19240

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

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

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

Causes serious eye irritation.

May cause an allergic skin reaction.

##### 2.2. Label elements

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

###### Hazard components for labelling

Reaction products of bis(2-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)

Reaction product of 1,3,4-thiadiazolidin-2,5-dithion, formaldehyde and phenol derivatives heptyl

**Signal word:** Warning

**Pictograms:**



###### Hazard statements

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

###### Precautionary statements

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

P337+P313 If eye irritation persists: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

##### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Alpine Gear Oil 85W140

Print date: 13.07.2016

Product code: MIT0121

Page 2 of 8

## SECTION 3: Composition/information on ingredients

### 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]			
	Reaction products of bis(2-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)			1-<5 %
	931-384-6		01-2119493620-38	
	Flam. Liq. 3, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H226 H302 H318 H317 H411			
112-90-3	(Z)-octadec-9-enylamine			<1 %
	204-015-5	612-283-00-3		
	Acute Tox. 4, Asp. Tox. 1, STOT SE 3, STOT RE 2, Skin Corr. 1B, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 10); H302 H304 H335 H373 H314 H400 H410			
	Reaction product of 1,3,4-thiadiazolidin-2,5-dithion, formaldehyde and phenol derivatives heptyl			<1 %
	939-460-0			
	Flam. Liq. 3, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H226 H315 H318 H317 H412			

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

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

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. Apply cortisone spray at early stage.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### 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.

### 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. Sand Foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Alpine Gear Oil 85W140

Print date: 13.07.2016

Product code: MIT0121

Page 3 of 8

powder In case of major fire and large quantities: Water spray jet Water mist

#### Unsuitable extinguishing media

Full water jet

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

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Sulphur oxides Nitrogen oxides (NO<sub>x</sub>)

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. In case of fire and/or explosion do not breathe fumes.

#### 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. Avoid formation of oil dust. Special danger of slipping by leaking/spilling product.

#### 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

Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of oil dust. Do not breathe gas/fumes/vapour/spray.

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

No special fire protection measures are necessary. Keep away from sources of ignition. - No smoking. Fire class B

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

##### Requirements for storage rooms and vessels

Keep container tightly closed. Only use containers specifically approved for the substance/product.

##### Advice on storage compatibility

No special measures are necessary.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### 8.2. Exposure controls

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Alpine Gear Oil 85W140

Print date: 13.07.2016

Product code: MIT0121

Page 4 of 8



#### 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

Suitable eye protection: goggles.

#### 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

Wear suitable protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

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

Physical state: liquid

Colour:

pH-Value:

not determined

#### Changes in the physical state

Melting point:

not determined

Initial boiling point and boiling range:

not determined

Pour point:

-15 °C ASTM D 5985

Flash point:

224 °C DIN ISO 2592

#### Flammability

Solid:

not applicable

Gas:

not applicable

Lower explosion limits:

not determined

Upper explosion limits:

not determined

#### Auto-ignition temperature

Solid:

not applicable

Gas:

not applicable

Decomposition temperature:

not determined

#### Oxidizing properties

Not oxidizing.

Vapour pressure:

not determined

Density (at 15 °C):

0,904 g/cm<sup>3</sup> DIN 51757

Water solubility:

insoluble

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Alpine Gear Oil 85W140

Print date: 13.07.2016

Product code: MIT0121

Page 5 of 8

#### Solubility in other solvents

not determined

Partition coefficient:

not determined

Viscosity / kinematic:  
(at 40 °C)

373 mm<sup>2</sup>/s DIN EN ISO 3104

Vapour density:

not determined

Evaporation rate:

not determined

#### 9.2. Other information

Solid content:

not determined

### 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

none

#### 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

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
	Reaction products of bis(2-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)			
	oral	LD50 2000 mg/kg	Rat	OECD 401
112-90-3	(Z)-octadec-9-enylamine			
	oral	ATE 500 mg/kg		

#### 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.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Alpine Gear Oil 85W140

Print date: 13.07.2016

Product code: MIT0121

Page 6 of 8

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
	Reaction products of bis(2-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)				
	Acute fish toxicity	LC50	8,5 mg/l	96 h	Pimephales promelas (fathead minnow)
	Acute algae toxicity	ErC50	6,4 mg/l	96 h	Pseudokirchneriella subcapitata
112-90-3	(Z)-octadec-9-enylamine				
	Acute fish toxicity	LC50	0,11 mg/l	96 h	Pimephales promelas (fathead minnow)

#### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
	Reaction products of bis(2-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)			
	ASTM D-5864-95	3,6%	28	
	Not readily biodegradable (according to OECD criteria)			
112-90-3	(Z)-octadec-9-enylamine			
	OECD 301D/ EEC 92/69/V, C.4-E	66%	28	
	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
112-90-3	(Z)-octadec-9-enylamine	>3,11

#### 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

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Advice on disposal

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

##### Waste disposal number of contaminated packaging

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Alpine Gear Oil 85W140

Print date: 13.07.2016

Product code: MIT0121

Page 7 of 8

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances  
Classified as hazardous waste.

#### 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)

**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.  
**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 Marpol 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

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).  
Water contaminating class (D): 2 - water contaminating  
Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

#### 15.2. Chemical safety assessment

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Alpine Gear Oil 85W140**

Print date: 13.07.2016

Product code: MIT0121

Page 8 of 8

**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)**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**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.

---

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