

according to Regulation (EC) No 1907/2006

## MITANOL Syngear FE 75W-80

Revision date: 14.10.2021 Page 1 of 12

Telefax: +49 (0)5462/7470-33

Print date: 25.10.2021

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

#### 1.1. Product identifier

MITANOL Syngear FE 75W-80

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

### Use of the substance/mixture

gear oil

#### Uses advised against

No information available.

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

Company name: MITANOL GmbH
Street: Industriestraße 8
Place: D-49577 Ankum
Telephone: +49 (0)5462/7470-50

e-mail: info@mitanol.de Internet: www.mitanol.de

Responsible Department: Produktsicherheit / Product Safety

sicherheitsdatenblatt@mitanol.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

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

#### 2.2. Label elements

## Regulation (EC) No. 1272/2008

### Special labelling of certain mixtures

EUH208 Contains Alkylamine trialkyldithiophosphate. May produce an allergic reaction.

#### 2.3. Other hazards

No information available.

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

## 3.2. Mixtures

#### **Chemical characterization**

Preparation of base oils and additives.



according to Regulation (EC) No 1907/2006

## MITANOL Syngear FE 75W-80

Revision date: 14.10.2021 Page 2 of 12

#### **Hazardous components**

CAS No	Chemical name					
	EC No	Index No	REACH No			
	GHS Classification					
64742-54-7	Distillates (petroleum), hydrotreated	d heavy paraffinic; Baseoil - unspecif	fied	25 - 50 %		
	265-157-1	649-467-00-8	01-2119484627-25			
	Asp. Tox. 1; H304					
68037-01-4	Dec-1-ene, homopolymer, hydrogenated					
	500-183-1		01-2119486452-34			
	Asp. Tox. 1; H304					
	Alkylamine trialkyldithiophosphate	< = 1 %				
	Acute Tox. 4, Eye Dam. 1, Skin Sens. 1B, Aquatic Chronic 2; H302 H318 H317 H411					
91648-65-6	1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol					
	293-927-7		01-2119976351-35			
	Aquatic Chronic 3; H412					

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

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

CAS No	EC No	Chemical name	Quantity		
	Specific Conc.	Specific Conc. Limits, M-factors and ATE			
64742-54-7	265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	25 - 50 %		
	dermal: LD50	= > 5000 mg/kg; oral: LD50 = > 5000 mg/kg			
68037-01-4	500-183-1	0-183-1 Dec-1-ene, homopolymer, hydrogenated			
	dermal: LD50	LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg			
		Alkylamine trialkyldithiophosphate			
	oral: ATE = 500 mg/kg				
91648-65-6	293-927-7	1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol	< = 1,0 %		
	inhalation: LC50 = > 2,75 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 10000 mg/kg				

#### **Further Information**

This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

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

# 4.1. Description of first aid measures

#### **General information**

Remove affected person from the danger area and lay down.

Do not leave affected person unattended.

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. Call a doctor if you feel unwell.

## After contact with skin

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

Take off contaminated clothing and wash it before reuse.

In case of skin irritation, consult a physician.



according to Regulation (EC) No 1907/2006

## MITANOL Syngear FE 75W-80

Revision date: 14.10.2021 Page 3 of 12

#### 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 thoroughly with water.

Let water be drunken in little sips (dilution effect).

Do NOT induce vomiting.

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

### 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

Use water spray jet to protect personnel and to cool endangered containers.

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

- Water spray iet
- Carbon dioxide (CO2).
- Extinguishing powder

#### 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 (CO)
- Carbon dioxide (CO2).
- Pyrolysis products, toxic
- Sulphur dioxide (SO2)

## 5.3. Advice for firefighters

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

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.

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

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

#### General measures

Keep people at a distance and stay on the windward side.

Special danger of slipping by leaking/spilling product.

## For non-emergency personnel

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

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

Prevent spread over a wide area (e.g. by containment or oil barriers).

### 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



according to Regulation (EC) No 1907/2006

## MITANOL Syngear FE 75W-80

Revision date: 14.10.2021 Page 4 of 12

recovered material as prescribed in the section on waste disposal.

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Remove from the water surface (e.g. skimming, sucking).

#### 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

Avoid formation of oil dust.

Use personal protection equipment.

Do not put any product-impregnated cleaning rags into your trouser pockets.

Clear spills immediately.

### Advice on protection against fire and explosion

No special fire protection measures are necessary.

Take precautionary measures against static discharges.

Keep away from sources of ignition - No smoking.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

Keep only in the original container. Store in a cool dry place.

Floors should be impervious, resistant to liquids and easy to clean.

# Hints on joint storage

Do not store together with:

- Materials capable of ignition under almost all normal temperature conditions
- Explosives

# 7.3. Specific end use(s)

gear oil

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

### 8.1. Control parameters



according to Regulation (EC) No 1907/2006

# **MITANOL Syngear FE 75W-80**

Revision date: 14.10.2021 Page 5 of 12

### **DNEL/DMEL values**

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Base	oil - unspecified			
Worker DNEL,	long-term	inhalation	systemic	2,73 mg/m³	
Worker DNEL,	long-term	inhalation	local	5,58 mg/m³	
Worker DNEL, long-term		dermal	systemic	0,97 mg/kg bw/day	
Consumer DNEL, long-term		inhalation	local	1,19 mg/m³	
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day	
91648-65-6	1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol				
Worker DNEL, long-term		inhalation	systemic	4,408 mg/m³	
Worker DNEL, long-term		dermal	systemic	6,25 mg/kg bw/day	
Consumer DNEL, long-term		inhalation	systemic	1,087 mg/m³	
Consumer DNEL, long-term		dermal	systemic	3,125 mg/kg bw/day	
Consumer DNEL, long-term		oral	systemic	0,625 mg/kg bw/day	

### PNEC values

CAS No	Substance					
Environmenta	Value					
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified					
Secondary po	pisoning	9,33 mg/kg				
91648-65-6	1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol					
Freshwater	Freshwater					
Freshwater (i	0,41 mg/l					
Marine water	0,004 mg/l					
Freshwater s	380,62 mg/kg					
Marine sedim	38,06 mg/kg					
Secondary po	6,67 mg/kg					
Micro-organis	8000 mg/l					
Soil	308,96 mg/kg					

## Additional advice on limit values

To date, no national critical limit values exist.

### 8.2. Exposure controls





# Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

## Protective and hygiene measures

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and after work.



according to Regulation (EC) No 1907/2006

# **MITANOL Syngear FE 75W-80**

Revision date: 14.10.2021 Page 6 of 12

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

#### Eye/face protection

During filling, metering, mixing and sampling must be used:

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.

Recommended glove articles: EN ISO 374 Suitable material: NBR (Nitrile rubber) Thickness of the glove material: 0,4 mm

Breakthrough times and swelling properties of the material must be taken into consideration. Breakthrough

time: > 8h

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: brown
Odour: characte

Odour: characteristic
Odour threshold: not determined

Test method

Print date: 25.10.2021

pH-Value: not determined

Changes in the physical state

Melting point: not determined
Boiling point or initial boiling point and not determined

boiling range:

Pour point: -42 °C ISO 3016 Flash point: 215 °C DIN ISO 2592

**Flammability** 

Solid/liquid: not applicable
Gas: not applicable

#### **Explosive properties**

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



according to Regulation (EC) No 1907/2006

## MITANOL Syngear FE 75W-80

Revision date: 14.10.2021 Page 7 of 12

Density (at 20 °C): 0,844 g/cm³ DIN 51757

Water solubility: practically insoluble

Solubility in other solvents

Soluble in hydrocarbons.

Partition coefficient n-octanol/water: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: 49,1 mm²/s DIN 51562

(at 40 °C)

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

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

The formation of combustible vapours is possible at temperatures above: Flash point

#### 10.4. Conditions to avoid

Avoid: Thermal decomposition

### 10.5. Incompatible materials

Materials to avoid:

- Oxidising agent

### 10.6. Hazardous decomposition products

Hazardous combustion products:

- Carbon monoxide (CO)
- Carbon dioxide (CO2)
- Sulphur dioxide (SO2)
- Pyrolysis products, toxic

## **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.



according to Regulation (EC) No 1907/2006

## MITANOL Syngear FE 75W-80

Revision date: 14.10.2021 Page 8 of 12

CAS No	o Chemical name						
	Exposure route	Dose		Species	Source	Method	
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified						
	oral	LD50 mg/kg	> 5000	Rat	Study report (1982)	OECD Guideline 401	
	dermal	LD50 mg/kg	> 5000	Rabbit	Study report (1982)	OECD Guideline 402	
68037-01-4	Dec-1-ene, homopolymer, hydrogenated						
	oral	LD50 mg/kg	> 5000	Rat	Study report (1994)	OECD Guideline 401	
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1995)	OECD Guideline 402	
	Alkylamine trialkyldithiophosphate						
	oral	ATE mg/kg	500				
91648-65-6	1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol						
	oral	LD50 mg/kg	> 10000	Rat	Study report (1981)	OECD Guideline 401	
	dermal	LD50 mg/kg	> 2000	Rabbit	Study report (1981)	OECD Guideline 402	
	inhalation (4 h) vapour	LC50 mg/l	> 2,75	Rat	Study report (1981)	OECD Guideline 403	

### Irritation and corrosivity

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

#### Sensitising effects

Contains Alkylamine trialkyldithiophosphate. May produce an allergic reaction.

### Carcinogenic/mutagenic/toxic effects for reproduction

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

The product contains less than 3% DMSO extract (method IP346). A classification as a carcinogen with R45 is deleted. (Note L)

## 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.

### Additional information on tests

The mixture is classified as not 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.



according to Regulation (EC) No 1907/2006

# MITANOL Syngear FE 75W-80

Revision date: 14.10.2021 Page 9 of 12

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified						
	Acute fish toxicity	LL50 mg/l	> 100	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203
68037-01-4	Dec-1-ene, homopolymer,	hydrogena	ted				
	Acute fish toxicity	LL50 mg/l	> 1000	96 h	Oncorhynchus mykiss	Study report (1995)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 1000	96 h	Pseudokirchneriella subcapitata	Study report (1995)	OECD Guideline 201
	Acute crustacea toxicity	EL50 mg/l	> 1000	48 h	Daphnia magna	Study report (1995)	OECD Guideline 202
91648-65-6	1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol						
	Acute fish toxicity	LL50 mg/l	> 1000	96 h	Pimephales promelas	Study report (1985)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Pseudokirchneriella subcapitata	Study report (2012)	OECD Guideline 201
	Acute crustacea toxicity	EL50 mg/l	< 100	48 h	Daphnia magna	Study report (2005)	OECD Guideline 202

#### 12.2. Persistence and degradability

Not readily biodegradable (according to OECD criteria)

#### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68037-01-4	Dec-1-ene, homopolymer, hydrogenated	> 6,5

#### **BCF**

CAS No	Chemical name	BCF	Species	Source
	1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol	15,7	Fish, not further specified.	Study report (2013)

### 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.

## 12.7. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

## Disposal recommendations

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.

### Contaminated packaging

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



according to Regulation (EC) No 1907/2006

## MITANOL Syngear FE 75W-80

Revision date: 14.10.2021 Page 10 of 12

#### **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-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 dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

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): 49 % (413,56 g/l)

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

**National regulatory information** 

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

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): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.



according to Regulation (EC) No 1907/2006

## MITANOL Syngear FE 75W-80

Revision date: 14.10.2021 Page 11 of 12

#### 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
SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

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

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains Alkylamine trialkyldithiophosphate. May produce an allergic reaction.

## **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.



according to Regulation (EC) No 1907/2006

# **MITANOL Syngear FE 75W-80**

Revision date: 14.10.2021 Page 12 of 12

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