

# **MANNOL**<sup>®</sup> MATERIAL SAFETY DATA SHEET

Prepared according to Annex II of EC Regulation 1907/2006

## **1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** 7820 Aqua Jet 4-Takt 10W-40  
**Product Use:** 4-Stroke engine oil  
**Date of issue :** 01.09.2011  
**Revision Date :** 26.11.2012  
**Company Information:** Sudheimer Car Technik Vertriebs GmbH  
**Address:** Feldstrasse 154, 22880 Wedel, Germany  
**Information telephone :** +49 (0) 4103 1211 118  
**Emergency telephone :** +49 (0) 4103 1211 0  
**E-mail :** info@sct-germany.de  
**Fax :** +49 (0) 4103 1211 116

## **2. HAZARDS IDENTIFICATION**

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

(EC) No 1272/2008

This product does not meet the classification requirements of the current European legislation.  
67/548/EC or 1999/45/EC

This product does not meet the classification requirements of the current European legislation.  
For a full text of R- and H- phrases: See section 16

### **2.2 Label elements**

(EC) No 1272/2008

Not applicable.

Supplemental label information

None.

### **2.3 Other hazards**

None identified.

## **3.MIXTURES**

### **HAZARDOUS INGREDIENTS**

#### **3.1 Mixture**

Distillates (petroleum), solvent-dewaxed heavy paraffinic . EC 265-169-7

Konc. (% w/w): 1,1-2,2%

67/548/EB or 1999/45/EB Classification :

1272/2008 Classification : Asp. Tox. 1: H304.

Zinc bis [O-(6-methylheptyl)] bis [O- (sec-butyl)] bis (dithiophosphate)

EB nr. 298-577-9; Registration number : 01-2119543726-33

Conc. (% w/w): 1,1-2,2%

67/548/EB or 1999/45/ Classification : Xi; R38-R41 N; R51-R53

1272/2008 Classification : : Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H 411

Bis (nonylphenyl)amine

EB nr. 253-249-4; Registration number: 01-2119488911-28

Conc. (% w/w): ): 0,6-1,1

67/548/EB arba 1999/45/EB Classification : R53

1272/2008 Classification : Aquatic Chronic 4; H413

Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts

EB nr. 270-608-0;

Konc. (% w/w): 0,1-0,3

67/548/EB or 1999/45/EB Classification : Xi; R38-R41 N; R51-R53

1272/2008 Classification : Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H 411

Nonylphenol branched, ethoxylated

EB nr. 500-209-1;

Konc. (% w/w): 0,1-0,3

67/548/EB arba 1999/45/EB Classification : Xi; R36/38 N; R50-R53

1272/2008 Classification : Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Acute 1; H400  
Aquatic Chronic 1; H 410

(tetrapropenyl) succinic acid

EB nr. 248-698-8

Konc. (% w/w): 0,1-0,3

67/548/EB arba 1999/45/EB Classification : Xi; R36/38 R53

1272/2008 Classification : Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 4; H413

Phenol, dodecyl-, branched

EB nr. 310-154-3; Registration number: 01-2119513207-49

Konc. (% w/w): 0,03-0,1

67/548/EB arba 1999/45/EB Classification : Repr. Cat. 3; R62 Xi; R36/38 N; R50-R53

1272/2008 Classification : Repr.. 2; H361f Skin Irrit.2; H315 Eye Irrit. 2; H319; Aquatic Acute 1;  
H400 Aquatic Chronic 1; H410

$\mu$ 3-thio-1,2:1,3:2,3-tris( $\mu$ -disulfido-k2S)-1,2,3-tris (dialkyldithiocarbamat)-triangulo-  
trimolybdenum (IV)dialkyldithiocarbamat

EB nr. 457-320-2; Registration number: 01-0000019337-66

Konc. (% w/w): 0,01-0,08

67/548/EB or 1999/45/EB Classification : Xi; R38 Xi; R43 R52-R53

1272/2008 Classification : Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412

## **4. FIRST AID MEASURES**

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

#### **Skin**

Wash with soap and water. Get medical attention if irritation develops.

Launder contaminated clothing before reuse.

#### **Eyes**

Flush with water at least 30 minutes. Get medical attention if eye irritation develops or persists.

#### **Inhaled**

Remove exposed person to fresh air if adverse effects are observed.

#### **Swallowed**

DO NOT INDUCE VOMITING. Get immediate medical attention.

#### **Advice for first-aid providers**

When providing first aid always protect yourself against exposure to chemicals or bloodborne diseases by wearing gloves, masks and eye protection. After providing first aid wash your exposed skin with soap and water.

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

See section 11.

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

If exposed or concerned: Get medical attention.

## **5. FIRE FIGHTING MEASURES**

### **5.1 Extinguishing Media**

CO<sub>2</sub>, dry chemical, or foam. Water can be used to cool and protect exposed material.

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

See section 10 for additional information.

### **5.3 Advice for firefighters**

Recommend wearing self-contained breathing apparatus. Water may cause splattering.

## **6. ACCIDENTAL RELEASE MEASURES**

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

Personal protective equipment must be worn. Ventilate area if spilled in a confined space or other poorly ventilated area.

### **6.2 Environmental precautions**

Prevent entry into sewers and waterways.

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

Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

### **6.4 Reference to other sections**

See sections 8 and 13 for additional information.

## **7. HANDLING AND STORAGE**

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

Keep containers closed when not in use. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of product. Dispose of packaging or containers in accordance with local, regional, national and international regulations.

Pumping Temperature

Ambient

Maximum Handling Temperature

70 °C, 158 °F

Maximum Loading Temperature

Not determined.

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

See section 10 for incompatible materials.

Maximum Storage Temperature

Not determined.

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

End uses are listed in an attached exposure scenario when one is required.

## **8. EXPOSURE CONTROL/PERSONAL PROTECTION**

### **8.1 Control parameters**

None known.

Other Exposure Limits

Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH TWA of 5 mg per cubic meter.

### **8.2 Exposure controls**

Use with adequate ventilation.

Eye/face protection

Safety Glasses.

Skin protection

Nitrile.

Gloves, coveralls, apron, boots as necessary to minimize contact. When working with heated material, wear heat protective clothing. Launder contaminated clothing before reuse.

#### Respiratory Protection

Use respirator with a combination organic vapor and high efficiency filter cartridge if recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

#### Hygiene Measures

Wash thoroughly after handling this product.

#### Environmental exposure controls

See section 6 for details.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour :	Yellow-Brownish
Odour:	Oil. Faint
Density at 200 C	0,8-0,90
Solubility in water	Negligible
Pour point,	- 42 °C
Flash point open cup (ASTM D-92)	> 210 °C
Viscosity at 100 °C	12,5-14,5 mm <sup>2</sup> /s (cSt)

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Carefully review all information provided in sections 10.2 - 10.6.

### 10.2 Chemical stability

Material is normally stable at moderately elevated temperatures and pressures.

### 10.3 Possibility of hazardous reactions

Will not occur.

### 10.4 Conditions to avoid

Not determined.

### 10.5 Incompatible materials

Oxidizing agents.

### 10.6 Hazardous decomposition products

Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

## 11. TOXICOLOGICAL INFORMATION

General: Low order of acute toxicity,

but aspiration following ingestion and vomiting may cause severe and potentially fatal chemical pneumonitis. Does not absorb in acute toxic amounts through the skin. Exposure to high concentrations of oil mist may cause irritation to the respiratory organ. Exposure to the eye is slightly irritating, but does not injure eye tissue.

Continuous or repeated skin contact combined with poor personal hygiene may cause dermatitis like eczema and oil acne. Used oil may contain harmful contaminants.

Skin contact: Product that under high pressure has been forced under the skin, may cause serious cell damage/death under the skin.

Often or prolonged skin contact with used engine oils can cause cancer of the skin.

## 12. ECOLOGICAL INFORMATION

Mobility: Low solubility in water, floats on water.

Persistence/Degradability: Potentially degradable, but will persist in the environment for long periods.

Accumulation: Contains components with the potential to bioaccumulate. ( $\log P_{ow} > 3$ )

Ecotoxicity: Not harmful to aquatic organisms. Expected LC/EC 50 value  $> 100$  mg/l.

### 13. DISPOSAL CONSIDERATIONS

Disposal methods: Recover and reclaim or recycle, if practical. Do not allow runoff to sewer, waterway or ground. Confirm disposal procedures with environmental engineer and local regulations.

Contaminated packaging: Drums that are to be recycled must be thoroughly evacuated.

Turn empty drum upside down, somewhat leaning (ca 10°) with opening in lowest position.

Let remaining products run out until drum is drip-free. Do not reseal without ventilating at a place free from ignition sources. See section 7 for further instructions.

Code of waste EWC: 13 02 05

Waste engine, gear and lubricating oils - mineral-based non-chlorinated engine, gear and lubricating oils.

Always check the given waste codes according to the actual conditions of manufacturing, formulation or use in your facilities.

### 14. TRANSPORT INFORMATION

General: Not classified as dangerous goods according to ADR/RID/IMDG/IATA

Road transport UN No : -

### 15. REGULATORY INFORMATION

Label for supply: Not applicable

Risk phrases: Not applicable

Safety phrases: Not applicable

### 16. OTHER INFORMATION

Relevant R Phrases

R38 -- Irritating to skin.

R41 - Risk of serious damage to eye.

R43- may cause sensitization by skin

R52/53-harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 -- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R53-May cause long-term adverse effects in the aquatic environment

Relevant hazard phrases

H304-May be fatal if swallowed and enters airways

H315 - Causes skin irritation.

H317- May cause an allergic skin reaction

H361 - Suspected of damaging fertility or the unborn child.

H400 - Very toxic to aquatic life.

H412- Harmful to aquatic life with long lasting effects

H318-risk of serious damage to eyes

H413- may cause long-term adverse effects in the aquatic environment.

H411- toxic to aquatic life with long lasting effects.

Xi-irritant

N-dangerous for environment

**Information Sources:** The Classification and Labeling of Petroleum Substances to the EU Dangerous Substance Directive. Information from raw material suppliers.

**Disclaimer:** This information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of product. Receiver of our product is responsible for that applicable laws and regulations are being followed.