

MANNOL[®] MATERIAL SAFETY DATA SHEET

Prepared according to Annex II of EC Regulation 1907/2006

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Super Benzin Oktan Plus

Product Use: additive

Date of issue : 20.12.2012

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Company Information: Sudheimer Car Technik Vertriebs GmbH

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Directive 67/548/EEC or 1999/45/EC

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

Harmful: may cause lung damage if swallowed. · Irritating to skin.

N ; R 51/53 · Xn ; R 65 · Xi ; R 38

Regulation (EC) No 1272/2008 (GHS)

May be fatal if swallowed and enters airways. · Causes skin irritation. · Toxic to aquatic life with long lasting effects.

Aquatic Chronic 2 ; H411 · Asp.Tox. 1 ; H304 · Skin Irrit. 2 ; H315

2.2 Label elements

Directive 67/548/EEC or 1999/45/EC

Danger symbol and danger designation



Xn ; Harmful



N ; Dangerous for the environment

R-phrases

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

38 Irritating to skin.

S-phrases

29/35 Do not empty into drains; dispose of this material and its container in a safe way.

61 Avoid release to the environment. Refer to special instructions / safety data sheet.

62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

24 Avoid contact with skin.

Regulation (EC) No 1272/2008 (GHS)

Hazard pictograms



Health hazard (GHS08) ·



Environment (GHS09) ·



Exclamation mark (GHS07)

Signal word

Danger

Hazard statements**H304** May be fatal if swallowed and enters airways.**H315****Causes skin irritation.**

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P301/310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P332/313 If skin irritation occurs: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents and container to appropriate landfills or recycling facilities in accordance with local and national regulations.

2.3 Other hazards

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures****Hazardous components****GASOIL (PETROLEUM), HYDRODESULFURIZED ; EC-No. : 265-184-9; CAS-No. : 64742-81-0**Percentage : $\geq 25 \%$

Classification 67/548/EEC : N ; R51/53 Xn ; R65 Xi ; R38

Classification 1272/2008 (GHS) : Asp.Tox. 1 ; H304 Skin Irrit. 2 ; H315 Aquatic Chronic 2 ; H411

POLYMERIC AMINE ; EC-No. : (polymer); CAS-No. : n.a.Percentage : $\geq 1 \%$

Classification 67/548/EEC : R52/53 Xi ; R38

Classification 1272/2008 (GHS) : Flam. Liq. 3 ; H226 Skin Irrit. 2 ; H315 Aquatic Chronic 3 ; H412

POLYETHER (POLYMER) ; EC-No. : (polymer)Percentage : $\geq 1 \%$

Classification 67/548/EEC : Xi ; R38

Classification 1272/2008 (GHS) : Flam. Liq. 3 ; H226 Skin Irrit. 2 ; H315

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. ; EC-No. : 918-811-1; CAS-No. : 64742-94-5Percentage : $< 1 \%$

Classification 67/548/EEC : N ; R51/53 Xn ; R65 R67 R66

Classification 1272/2008 (GHS) : Asp.Tox. 1 ; H304 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

1,2,4-TRIMETHYLBENZENE ; EC-No. : 202-436-9; CAS-No. : 95-63-6Percentage : $< 1 \%$

Classification 67/548/EEC : R10 N ; R51/53 Xn ; R20 Xi ; R36/37/38

Classification 1272/2008 (GHS) : Flam. Liq. 3 ; H226 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 Aquatic Chronic 2 ; H411

For the wording of the listed risk phrases refer to section 16.

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 blood born 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

CO₂, 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

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. ; CAS-No. : 64742-94-5

Specification : TRGS 900 (D)

Value : 100 mg/m³

Version date :

1,2,4-TRIMETHYLBENZENE ; CAS-No. : 95-63-6

Specification : TRGS 900 (D)

Value : 20 ppm / 100 mg/m³

Category : 2(II)

Remarks : Y

Version date : 01.03.2011

Specification : TWA (EC)

Value : 20 ppm / 100 mg/m³

Version date : 08.06.2000

8.2 Exposure controls

No particular measures required. Environmental exposure controls

See section 6 for details.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties Relevant safety data

Boiling temperature / boiling range : (1013 hPa) >160°C

Flash point : >61°C Brookfield

Vapour pressure : (50 °C) <100hPa

Density : (20 °C) ca.1g/cm³

Viscosity : (20 °C) <10mPa.s

9.2 Other information

None.

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 odor 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: Contain components with the potential to bioaccumulate. (logPow > 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 up side 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

14.1 UN number

3082

14.2 UN proper shipping name

ADR/RID

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (GASOIL (PETROLEUM), HYDRODESULFURIZED · SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM.)

IMDG-Code

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (GASOIL (PETROLEUM), HYDRODESULFURIZED · SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. · NAPHTHALENE)

ICAO-TI / IATA-DGR

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (GASOIL (PETROLEUM), HYDRODESULFURIZED · SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM.)

14.3 Transport hazard class(es)

ADR/RID

Class :

9

Classification-Code :	M6
Kemlercode :	90
Tunnel restriction code :	E
Special provisions :	LQ 7 · E 1
Label :	9 / N
IMDG-Code	
Class :	9
EmS number :	F-A / S-F
Special provisions :	LQ 51 · E 1
Label :	9 / N
ICAO-TI / IATA-DGR	
Class :	9
Special provisions :	E 1
Label :	9 / N
14.4 Packing group	
III	
14.5 Environmental hazards	
ADR/RID : N	
14.6 Special precautions for user	
None.	

15.REGULATORY INFORMATION
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulatory information
Emission control act ("TA-Luft")
Weight fraction (Number 5.2.5. I) : < 5 %
Water pollution classification
Class : 2 Classification according to VwVwS
15.2 Chemical safety assessment
There are no data available on the product itself.

16. OTHER INFORMATION
Further information
R-Phrases of components
10 Flammable.
20 Harmful by inhalation.
36/37/38 Irritating to eyes, respiratory system and skin.
38 Irritating to skin.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.
GHS Hazard statements of components
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects. effects.

Explanations of R-phrases in section 2:

Information Sources: The Classification and Labelling 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.