

MANNOL[®] MATERIAL SAFETY DATA SHEET

Prepared according to Annex II of EC Regulation 1907/2006

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Diesel Plus

Product Use: additive

Date of issue : 20.12.2012

Revision Date : 12.02.2013

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

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.

R 44 · N ; R 51/53 · Xn ; R 65 · Xi ; R 36/38 · R 67

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 Sens. 1 ; H317 · STOT SE 3 ; H336

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

44 Risk of explosion if heated under confinement.

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

36/38 Irritating to eyes and skin.

43 May cause sensitization by skin contact.

65 Harmful: may cause lung damage if swallowed.

67 Vapours may cause drowsiness and dizziness.

66 Repeated exposure may cause skin dryness or cracking.

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.

51 Use only in well-ventilated areas.

37 Wear suitable gloves.

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.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P310 Immediately call a POISON CENTER or doctor/ physician.

P321 Special treatment see on this label.

P403/233 Store in a well-ventilated place. Keep container tightly closed.

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

Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

2-ETHYL-HEXYL-NITRATE ; EC-No. : 248-363-6; CAS-No. : 27247-96-7

Percentage : $\geq 25 \%$

Classification 67/548/EEC : R44 N ; R51/53 Xn ; R20 Xn ; R65

Classification 1272/2008 (GHS) : Asp.Tox. 1 ; H304 Acute Tox. 4 ; H332 Aquatic Chronic 2 ; H411

3,3-METHYLENE-BIS-[5-METHYLOXAZOLIDINE] ; EC-No. : 266-235-8; CAS-No. : 66204-44-2

Percentage : $\geq 5 \%$

Classification 67/548/EEC : C ; R34 R52 Xn ; R21/22

Classification 1272/2008 (GHS) : Skin Corr. 1B ; H314 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312

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

Percentage : $< 10 \%$

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

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 :

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

Boiling temperature / boiling range :	(1013 hPa)	>160°C	
Flash point :		>61°C	Brookfield
Vapour pressure :	(50 °C)	<100hPa	
Density :	(20 °C)	ca.1g/cm ³	
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 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: 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

21/22 Harmful in contact with skin and if swallowed

20 Harmful by inhalation.

22 Harmful if swallowed.

36/37/38 Irritating to eyes, respiratory system and skin.

36/38 Irritating to eyes and skin.

37 Irritating to respiratory system.

38 Irritating to skin.

40 Limited evidence of a carcinogenic effect.

43 May cause sensitization by skin contact.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

51/53 Toxic 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.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

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.

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 quaranteeing any specific property of product. Reciever of our product is responsible for that applicable laws and regulations are being followed.