

Safety Data Sheet

Revised: 20.02.2006

 Publication No.
 XRB158A(EN)

01. Identification of the substance / preparation and of the company

Product: TRW Hydraulic System Mineral Oils
Use: Hydraulics oil
Company: TRW KFZ Ausrüstung GmbH Rudolf-Diesel-Str. 7 56566 Neuwied
Phone: (+49) 02631-912 0
Fax: (+49) 02631-912 110
Emergency phone: (+44) NHS 0845 46 47

02. Composition / Information on ingredients

Substance	EINECS/ELINCS	CAS	Range [%]	Symbol / R-phr.
Distillates (petroleum), hydrotreated middle	265-148-2	64742-46-7	10 - 30	Xn-65-66
Mineral Oil Hydrotreated	276-737-9	72623-86-0	60 - 90	

03. Hazards identification

No special hazards have to be mentioned.

04. First aid measures

General information	Change soaked clothing.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
Skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
Eye contact	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion	Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Supply with medical care.
Advice to doctor	Treat symptomatically.

05. Fire-fighting measures

Suitable extinguishing media:	Foam. Dry powder. Carbon dioxide.
Extinguishing media that must not be used:	Full water jet.
Special exposure hazards arising from the substance or preparation itself or combustion products:	Risk of formation of toxic pyrolysis products.
Special protective equipment for firefighters:	Use self-contained breathing apparatus.
Additional information:	Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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06. Accidental release measures

Personal precautions:	High risk of slipping due to leakage/spillage of product.
Environmental precautions:	Do not discharge into the drains/surface waters/groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers).
Methods for cleaning up:	Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, silicious earth). Dispose of absorbed material in accordance with the regulations.

07. Handling and storage

Advice on safe handling:	No special measures necessary if used correctly.
Advice on protection against fire and explosion:	No special measures necessary.
Requirements for storage rooms and vessels:	Provide solvent-resistant and impermeable floor. Keep only in original container.
Advice on storage compatibility:	Do not store together with oxidizing agents.
Further information on storage conditions:	Keep container tightly closed. Keep container in a well-ventilated place. Protect from heat/overheating.

08. Exposure controls / personal protection

Additional advice on system design:

Ensure adequate ventilation on workstation.

Ingredients with occupational exposure limits to be monitored: (GB)

Substance	[ppm]*	[mg/m ³]*	General remarks:
Distillates (petroleum), hydrotreated middle		1200	

* LTEL: Long-term exposure limit

Respiratory protection:	Breathing apparatus in the event of high concentrations.
Hand protection:	Butyl rubber, >120 min (EN 374).
Eye protection:	Safety glasses.
Skin protection:	not applicable
General protective measures:	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols.
Hygiene measures:	Wash hands before breaks and after work. Use barrier skin cream.
Delimitation and monitoring of the environmental exposition:	not determined

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09. Physical and chemical properties

Form:	liquid
Colour:	amber colour
Odour:	like mineral oil
pH-value:	neutral
pH-value (1 %):	not determined
Boiling point [°C]:	not determined
Flash point [°C]:	>110
Flammability [°C]:	not determined
Lower explosion limit:	1 Vol.-%
Upper explosion limit:	8 Vol.-%
Combustible properties:	no
Vapour pressure [kPa]:	not determined
Density [g/ml]:	0,84 - 0,89
Bulk density [kg/m ³]:	not applicable
Solubility in water:	immiscible
Partition coefficient: n-octanol/water:	not determined
Viscosity:	16 - 20 cSt (40°C)
Relative vapour density determined in air:	not determined
Evaporation speed:	not determined
Melting point [°C]:	-50
Autoignition temperature [°C]:	>350
Decomposition temperature [°C]:	not determined

10. Stability and reactivity

Hazardous reactions:	Reactions with strong oxidizing agents. Reactions with strong acids.
Hazardous decomposition products:	No hazardous decomposition products known.

11. Toxicological information

Acute oral toxicity OECD 401:	not determined
Experiences made in practice:	none
General remarks:	No toxicological data are available. No classification on the basis of the calculation procedure of the preparation directive.

12. Ecological information

Fish toxicity:	not determined
Daphnia toxicity:	not determined
Behaviour in environment compartments:	not determined
Behaviour in sewage plant:	not applicable
Bacteria toxicity:	not determined

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Biological degradability:	not applicable
COD:	not determined
BOD 5:	not determined
AOX-advice:	No dangerous components.
76/464/EC:	yes
General information:	Ecological data are not available.

13. Disposal considerations

Disposal / Product:	For recycling, consult manufacturer. Disposal in an incineration plant in accordance with the regulations of the local authorities.
Waste no. (recommended):	130110*
Disposal / Contaminated packaging:	Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.

14. Transport information

<u>Classification according to ADR:</u>	no dangerous goods
Declaration:	
Labelling:	
Factor (ADR 1.1.3.6):	
LQ (ADR 3.4.6):	
Hazard-no.:	
Label:	
<u>Classification according to IMDG:</u>	not classified as "Dangerous Goods"
Declaration:	
Labelling:	
Label:	
LQ [l, kg]:	
EmS:	
<u>Classification according to IATA:</u>	not classified as "Dangerous Goods"
Declaration:	
Labelling:	
Label:	

15. Regulatory information

Labelling:	The product does not require a hazard warning label in accordance with EC-directives.
Hazard symbols:	

15.1 Special labelling for certain preparations

Safety data sheet available for professional user on request.

15.2 Sources of documentation

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EEC: 91/155 (2001/58); 67/548 (2004/73), 29. ATP; 1999/45 (2001/60); 91/689 (2001/118); 89/542; 1999/13

Transport information: ADR (2005); IMDG-Code (32.Amdt.); IATA-DGR (2006)

15.3 National regulations(gb)

EH40/2002 Occupational Exposure Limits Supplement 2003

16 Other informations

(Information on ingredients - position 02)

R 65: Harmful - may cause lung damage if swallowed.

R 66: Repeated exposure may cause skin dryness or cracking.

16.1 Additional information:

Observe employment restrictions for people: not applicable

VOC (1999/13/EG): not determinated

Customs Tariff: not determinated

16.2 Information on ingredients

UBA-Registration: not applicable

648/2004/EG, Contains: not applicable

16.3 Modified position

none