

DIFFU - THERM® Magnetic-Particle-Suspension MPS - F (cans)

1. Identification of substance:

Trade name: Magnet-Particle-Suspension **Fluorescent** (oil based)

Article number: MPS - F

Manufacturer/Supplier

Helmut Klumpf

Technische Chemie KG

Industriestr. 15

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Advice:

Helmut Klumpf, Techn. Chemie KG, H. Klumpf

Emergency advice:

As stated above or next emergency phone

2. Hazards identification

Hazards designation:

Xn Harmful

Information pertaining to particular dangers for man and environment:

R 65 Harmful: May cause lung damage if swallowed.

R 66 Repeated exposure may cause skin dryness or cracking.

3. Composition/information on ingredients

Chemical characterization (preparation):

Description: Suspension with Magnetic-particle in aliphatic hydrocarbons C₁₁ - C₁₃

Hazardous ingredients:

CAS-No.	Name of chemical	EINECS-number	EWG-no.	weight %	Symbols	R-phrases
64741-65-7	aliphatic hydrocarbons	265-067-2		80 - 100	Xn	65, 66

4. First aid measures

General information:

After inhalation:

Ensure supply of fresh air.

In the event of symptoms refer for medical treatment.

After skin contact:

In case of contact with skin wash off with water.

After eye contact:

In case of contact with eyes rinse thoroughly with water.

After swallowing

Do not induce vomiting; instantly call for medical help. Instantly call for doctor

5. Fire-fighting measures

Suitable extinguishing material:

ABC powder, alcohol-resistant foam, carbon dioxide.

Extinguishing material that must not be used for safety reasons:

Full water jet.

Special exposure hazards extinguishing from the substance or preparation itself, combustible products or resulting gases:

None

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Special protective equipment for fire fighters:

None

Additional information's:

Cool containers at risk with water spray jet.

6. Accidental release measures

Personal precautions:

Ensure adequate ventilation.
Keep away sources of ignition.

Environmental precautions:

Do not discharge into the subsoil/soil.
Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up:

Take up with absorbent material
(e.g. sand, sawdust, kieselguhr, general-purpose binder).

7. Handling and storage

Handling:
Advice on safe handling:

Provide good room ventilation even at ground level (vapours are heavier than air).

Advice on protection against fire and explosion:

Keep away from sources of ignition.
Do not smoke.
Take precautionary measures against static discharges.

Storage:
Requirements for storage rooms and vessels:

Keep container in a well-ventilated place.

Advice on storage compatibility:

Do not store together with oxidizing agents.

Further information on storage conditions:

Keep container in a well-ventilated place.

8. Exposure controls/personal protection

Additional information about of technical systems:

No other information's, see point 7.

Ingredients with occupational exposure limits to be monitored:

CAS - NR.	Name of chemical	%	Code	Value	Unit	peak limited category
64741-65-7	aliphatic hydrocarbons	25 - 80	MAK	200 (1000)	ml/m ³ (mg/m ³)	1

Additional information's:

None

Personal protection equipment:
Respiratory protection:

If ventilation insufficient, wear respiratory protection apparatus.

Hand protection:

Gloves (solvent-resistant)

Eye protection:

Tightly fitting goggles

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General protective measures:

Avoid contact with eyes.

Avoid prolonged and/or repeated contact with skin.

Hygiene measures:

At work do not eat, drink, smoke, or take drugs.

Remove soiled or soaked clothing immediately.

Cloths contaminated with product should not be kept in trouser pockets.

9. Physical and chemical properties**General Information**

Form: Liquid

Colour: brown

Smell: Paraffinic

Data relevant for safety:

Boiling range: 180 -215 °C (DIN 53 171)

Flash point: 60 °C (DIN 51 758)

Ignition temperature: 350 °C (DIN 51 794)

Explosive properties: The Product is not explosive, but may form flammable/explosive vapour-air mixture.

Explosion limits Lower e.l.: 0,6 Vol.%

Upper e.l.: 6 Vol.%

Vapour pressure (20°C): 1,1 hPa

Density (15°C): 0,761 g/cm³ (DIN 51 757)

Solubility in water (20°C): virtually insoluble

Viscosity (25°C): 1,85 mm²/s**10. Stability and reactivity****Conditions to avoid:**

No decomposition if used correctly. No reactions by normal use.

Materials to avoid:

No hazardous reactions known.

Hazardous decomposition products:

No hazardous decomposition products known.

11. Toxicological information**Basis for assessment:** Information given is based on product data and on data on the components and the toxicology of similar products.**Acute Toxicity**

Oral : Low toxicity, LD 50 > 2000 mg/kg

Dermal : Low toxicity, LD 50 > 2000 mg/kg

Inhalation: Low toxicity, LC 50 > 5 mg/l. LC 50 greater then near saturated atmosphere of the solvent

Irritability/Corrosiveness:**Skin:** Slight irritant, but not sufficient to trigger an EC label**Eye:** Not irritating**Sensitization:** Not a skin sensitizer

12. Ecological information

Data on elimination (persistence and degradability):

The product is partial biodegradable

Danger class for water (WKG 1 German only) = slightly dangerous for water

Behaviour in environment compartments:

The product is slightly soluble in water.

Ecotoxicological effects:

No data are available.

General information's:

Do not discharge product unmonitored into the environment.

13. Disposal considerations

Product:

Recommendations:

Hand over to authorized disposal agency.

Waste code No.:

EAV: 14 01 03 term: Mixture of solvent

Contaminated packaging:

Recommendations:

Container must be completely emptied and must not be opened by force.

Hand over to authorized disposal agency.

Waste code No.:

EAV: 15 01 02 term: Plastic jerry cans

14. Transport information

Land transport ADR/RID

UN-Nr.: 1993

Identification: FLAMMABLE LIQUID, N.A.G. (solvent naphtha)

Class: 3 Package Group: III

Classifications code: F 1 shipment category: 3 Label-no.: 3

Packing instruction: P 001, MP 19

Limited of volume: LQ 7

Marine transport IMDG/GGVSee

Class: 3.3 UN-No.: 1993

IMDG-Page: EmS-No.: MFAG:

Package Group: III, Label-no.: 3

Marine Pollutant: No

Proper Shipping Name: Flammable liquid, n.o.s.
contains (solvent naphtha)

Air transport ICAO-TI and IATA-DGR

Class/Division: 3 UN/ID-Nr.: 1993

Package Group: III, Label: 3

Packing inst. Passenger aircraft: 309/Y309 Max. netto/Package: 60 L / 10 L

Packing inst. Cargo aircraft: 310 Max. netto/Package: 220 L

Proper Shipping Name: Flammable liquid, n.o.s.
contains (solvent naphtha)

15. Regulatory information

Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV).

Code letter and hazard designation for product:

Xn Harmful

Risk phrases:

R 65 Harmful: May cause lung damage if swallowed.
R 66 Repeated exposure may cause skin dryness or cracking.

Safety phrases:

S 23 Do not breathe vapour/spray.
S 24 Avoid contact with skin.
S 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this

National Regulations (German):

TA-Luft/classification, compound, remarks: Class 3 (organic)

Water hazard class: WGK 1 (slightly dangerous for water)

16. Other information

Recommended uses:

As **Magnetic-Particle-Suspension** at the Magnetic particle inspection by acc. to EN ISO 9934-1 (DIN 54 132) for finding surface cracks.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
