

EEC-Safety data sheet PHASE CHANGE MATERIAL

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Version: 1

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1. Identification of the substance and company

RUBITHERM[®] SP 25 A8

Manufacturer/supplier:

Rubitherm Technologies GmbH
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Emergency telephone:

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2. Composition/information on ingredients

Chemical characterisation:

Preparation of paraffin wax, ethandiol and calcium chloride.

Hazardous ingredients:

Calciumchloride:

CAS-No.: 10043-52-4; EINECS: 233-140-8

Labelling: Xi, R 36

Ethandiol: < 25 Wt.%)

CAS-No.: 107-21-1; EINECS: 203-473-3

Labelling: Xn, R 22

Fatty alcohol polyglycol ether: < 5 Wt.%)

Labelling: Xi, R 36/38

3. Hazards identification

Classification:

Xi irritating

Potential dangers to health and environment:

R 36 Irritating to eyes.

4. First-aid measures

General information:

Inhalation:

Take the affected person to fresh air to protect from further exposition. In case of unconsciousness, vomiting, dizziness or irritation of respiratory tract seek medical attention immediately.

Eye contact:

Flush eye immediately with cold water. If irritation continues seek medical attention.

Skin contact:

After contact with product remove soaked clothing immediately and wash the skin with water and soap.

When swallowed:

Rinse mouth and drink water. When swallowed a large amount seek medical attention. Do not induce vomiting.

5. Fire-fighting measures

Suitable extinguishing media:

Carbon dioxide, foam, dry powder, sand, water mist

Special exposure hazards arising from the substance, its combustion products or from resulting gases:

In case of incomplete combustion irritant vapours, smoke, soot and carbon monoxide (CO) may be formed.

Special protective equipment in closed rooms:

Use self-contained breathing apparatus

6. Accidental release measures

Personal precautions:

Avoid contact with skin and eyes.

Environmental precautions:

Do not allow to enter drains, surface water, groundwater or soil.

Methods for cleaning up:

Remove product mechanically.

7. Handling and storage

Handling

Hints on safe handling:

No special measures necessary if used correctly.

Hints for protection against fire and explosion:

Keep away from ignition sources. Do not smoke. Take appropriate measures to avoid electrostatic charge.

Storage

Requirements for storage rooms and containers:

Keep in closed containers. Keep cool.

Information on storage together with other products:

Do not store together with strong oxidising agents and food.

8. Exposure controls / personal protection

Ingredients with occupational exposure limits which should be monitored:

Germany:

Ethandiol: MAK-value = 26 mg/m³ resp. 10 ppm

For aerosols and fine dust MAK-value of 6 mg/m³ has to be adhered to.

Personal protective equipment:

Hand protection: Protective gloves made from PVC, neoprene or butyl rubber.

Eye protection: Safety goggles

Body protection: Protective clothing

Breathing protection: If ventilation is not sufficient use breathing apparatus.

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9. Physical and chemical properties

Physical state: past-like
Colour: blue
Odour: slightly alcoholic
Odour threshold (ppm): NE
pH-value at 20°C: NE
Boiling range (OECD 103): NA
Melting point (OECD 103): approx. 25 °C
Flash point: NE
Flammability: NE
Auto flammability: NA
Explosive properties: NA
Oxidizing properties: NA
Vapour pressure at 50°C (OECD104): NE
Vapour density: NE
Evaporation rate: NE
Density at 20°C (DIN 51 757): approx. 1380 kg/m³
Solubility at 20°C
- in water: NE
Partition coefficient, log p_{OW} (OECD 107): NE
Viscosity at 25°C (Brookfield): NA
Pour point: NA
Freezing point: NE
NA = not applicable; NE = not established

10. Stability / reactivity

Conditions to avoid:
None.
Material to avoid:
Strong oxidising agents.
Decomposition products:
None.

11. Toxicological information

Acute toxicity :
Oral: Not established for this preparation.
Dermal: Not established for this preparation.
Inhalation: Not established for this preparation.
Sensitisation:
Not established for this preparation.

12. Ecological information

Elimination/persistence and degradability:
Paraffin wax: inherent biodegradable
Ethandiol: biodegradable.

13. Disposal considerations

Landfill in accordance with local authorities.
Packaging:
Drums: Drums can be returned to supplier

14. Transport information

US DOT: not regulated
RID/ADR: not regulated
IMO not regulated
ICAO/IATA: not regulated
Other: Allowed for mailing in adequate packaging

15. Regulatory information

Labelling in accordance with the EEC directives:
Xi irritant
R 36 Irritant to eyes.
S 24/25: Avoid contact with skin and eyes.
National regulations
Germany:
Classification according to VbF: Not applicable
TA Luft: Not applicable
Water hazard class (WGK): 1, low hazardous to waters (self-classification)
StörfallIVO: Not applicable

16. Other information

Literature:
Ullmanns Encyclopädie der technischen Chemie
4. Auflage, Band 24, Kapitel "Wachse aus Erdöl",
Verlag Chemie GmbH, 1983.

This safety data sheet contains only safety related information.
For specific data see product data sheet.

Although the information contained herein is presented in good faith and to the best of RUBITHERM's knowledge and experience, it is made without any warranty or guarantee whatsoever.

In case any questions should arise please call the number given in point 1.

Rubitherm Technologies GmbH