

EEC-Safety data sheet
PHASE CHANGE MATERIAL

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Version: 1 Date: 15.01.2007 Revision: 29/04/2009

1. **Chemical product and company identification**

RUBITHERM® PX 50

Manufacturer/supplier:
Rubitherm Technologies GmbH
Sperenberger Str. 5a, 12277 Berlin
Tel.: +49 30/720004-62, Fax: +49 30/720004-99

Emergency telephone:
Tel.: +49 30/720004-62
 2. **Potential hazards**

Description of hazards:
none

Adverse human health effects:
Dustlike product is slightly irritant to eyes, skin and respiration tract.

Physical and chemical hazards:
- fire or explosion: Dustlike product can be formed an explosive conglomerate with air.
- further hazards: none

Classification/specific hazards:
According the EU dangerous preparation Directive no classification is necessary.
 3. **Composition/information on ingredients**

PCM on inorganic background material

CAS-No.: 112926-00-8; 8002-74-2
EINECS-No.: 231-545-4; 235-315-6
 4. **First-aid measures**

Inhalation:
Move affected person away from contaminated area and into fresh air. In case of lasting aches and pain take medical advices immediately.

Skin contact:
Wash of skin with water.

Eye contact:
Rinse out eyes at least 15 minutes.

Swallow:
Rinse out mouth with water and drink water.
 5. **Fire-fighting measures**

Suitable means for extinguishing:
Foam, powder, sand, carbon dioxide, water mist

Unsuitable means for extinguishing:
Water yet

Special exposure hazards arising from the substance, its combustion products or from resulting gases:
In case of uncompleted combustion irritant vapour, carbon monoxide, carbon dioxide and fume can be formed.

Special protective equipment for fire fighting:
Use protective clothes and use breath apparatus independent from ambient air.
 6. **Measures in case of unintended release**

Personal precautions:
Avoid eyes contact with product.
Personal protective equipment: breath apparatus with particle filter and safety goggles.

Environmental precautions:
This product doesn't present any particular risk for the environment.

Methods for cleaning up:
spilling material can be clean up mechanically.
 7. **Handling and storage**

Technical Measures: Dust extraction

Advices for safe handling:
Avoid explosive formation of dust-air-conglomerate. Assure earth the equipment. Avoid ignition sources.

Advices for fire and explosion control:
Avoid the formation of dust.
Avoid the build-up of dust.

Storage
Store the product cool, dry and lightproof.
 8. **Exposure controls / personal protection**

Engineering measures: extract dust at emission point.

Occupational exposure limits:
Silicone dioxide:
USA: TLV (TWA): 4 mg/m³
Germany: MAK: 10 mg/m³

Personal protective equipment:
Respiratory protection:
In the event of insufficient ventilation of the workplace: use respiration protective device with an particle filter.

Hand protection: protective gloves made of rubber

Eye protection: safety goggles

Collective emergency equipment: eyes fountain

Hygiene measures: frequently vacuum dust
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9. Physical and chemical properties

Physical state: at room temperature solid (powder)
Colour: white
Odour: odourless
pH-value: aqueous suspension: 6-8
Flash point (DIN-ISO 2592): > 220°C
Vapour pressure at 20°C: < 0.01 hPa
Bulk Density at 20°C: 0.694 g/ml
Solubility at 20°C - in water: insoluble

10. Stability/ reactivity

Stability: at room temperature stabile
Conditions to avoid:
 The product decomposed above 250°C.
Material to avoid: strong oxidising agents
Decomposition products:
 Carbon monoxide, carbon dioxide, organic compounds

11. Toxicological information

Acute oral toxicity:
 Orale LD50: > 2000 mg/kg (rat)
 Orale LD50: > 2000 mg/kg (rabbit)

Inhalation: Slightly irritant to respiratory system.
Irritant effect on skin: slightly irritant to skin and mucosa
Irritant effect on eyes: slightly irritant
Sensitization: nor sensitising
Mutagenicity: not mutagenic

12. Environmental details

Product is insoluble in water. It can be removed mechanically in a purification plant.
Information on elimination (persistence and degradability):
 The organic components of the product are inherently biodegradable according to (OECD 301 B).
Fish toxicity: Non-toxic (DIN 38 412-L 31)

13. Disposal considerations

Can be disposed off after consultation with the responsible authorities according to the following waste disposal codes (European Waste Catalogue):

<u>EW-C-Code</u>	<u>Description</u>
07 01 99	Wastes not otherwise specified

14. Transport information

Product is not a hazardous good according to ADR/RID; GGVs/GGVE, ADN/ADN; IMDG/GGVSee; ICAO-TI and IATA-DGR).

15. Statutory provisions

Classification and labelling:
 The product does not require a hazard warning label in accordance with the EEC Directives
Risk phrases: Not applicable
Safety phrases: Not applicable
National regulations
Germany:
Water hazard class (WGK): Not water endangering substance according to Annex I VwVwS

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.

The information on this data sheet is gathered to the best of RUBITHERM's knowledge and belief and fits as the experiences stand at the moment. RUBITHERM doesn't guarantee the adherence of certain features in sense of legally binding.

In case of question please call number given in point 1.

Rubitherm Technologies GmbH