

EEC-Safety data sheet
PHASE CHANGE MATERIAL

page 1/2

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

1. Chemical product and company identification

RUBITHERM® PX 42

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 skin, eyes and respiration tracts.

Physical and chemical hazards:

- **fire or explosion:** dustlike product can be formed an explosive conglomerate with air.

- **further hazards:** none

Classification/specific hazards:

According to the EU dangerous preparations 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; 232-315-6

4. First-aid measures

Inhalation:

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

Skin contact:

Wash off skin with water.

Eye contact:

Rinse out eyes at least 15 minutes.

Swallow:

Rinse out mouth and drink water.

5. Fire-fighting measures

Suitable means for extinguishing:

Carbon dioxide, foam, dry powder, sand, 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 incomplete combustion irritant vapour, carbon monoxide, carbon dioxide and soot can be formed.

Special protective equipment for fire fighting:

Wear 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 does not present any particular risk for the environment.

Methods for cleaning up:

Spilling material can be removed mechanically.

7. Handling and storage

Technical Measures: Dust extraction (suction)

Advices for safe handling:

Avoid formation of explosive dust-air-mixtures. Assure proper grounding and bonding of equipment. Avoid ignition sources.

Advices for fire and explosion control:

Avoid the formation of dust.

Avoid the build-up of dust.

Storage

Store under cool, dry and light protected conditions

8. Exposure controls / personal protection

Engineering measures: extract dust at emission point.

Occupational exposure limits:

Silicone dioxide:

USA: TLV (TWA): 10 mg/m³

Germany: MAK: 4 mg/m³

Personal protective equipment:

Respiratory protection:

In the event of insufficient ventilation: respiratory protective device with a particle filter.

Hand protection: protective gloves made of rubber.

Eye protection: safety goggles

Collective emergency equipment: eyes fountain.

Hygiene measures: frequently vacuum dust.

EEC-Safety data sheet
RUBITHERM® PX 42

page: 2/2

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): > 192°C
Vapour pressure at 20°C: < 0.01 hPa
Bulk Density at 20°C: approx. 0.694 g/ml
Solubility at 20°C - in water: insoluble

10. **Stability / reactivity**

Stability: stable at room temperature
Conditions to avoid: 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 systems.
Irritant effect on skin: slightly irritant to skin and mucosa
Irritant effect on eyes: slightly irritant
Sensitization: not 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>EWC-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