

EEC-Safety data sheet  
**PHASE CHANGE MATERIAL**

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Version: 1 Date: 15.01.2007 Revision: 18/03/2009

1. **Chemical product and company identification**

**RUBITHERM® RT 6**

**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**

**EEC-labelling:** Xn, harmful

**Potential dangers for health and environment:**

In case of swallowing product lung damage can be caused.

**Danger of fire and explosion:**

Low risk. Product only creates ignitable mixtures or burns, if temperature exceeds flash point.

3. **Composition/information of ingredients**

**Chemical characterisation:**

Liquid saturated hydrocarbons,  
Molecular formula  $C_nH_{2n+2}$

CAS-No.: 64771-72-8

EINECS: 265-233-4

4. **First-aid measures**

**Inhalation:**

Take concerned person to fresh air. In case of lasting aches and pains take medical advice.

**Eye contact:**

In case of eyes contact rinse out eyes. In case of irritation take medical advice.

**Skin contact:**

In case of skin contact wash concerned area with water and soap. In case of irritation take medical advice.

**In case of swallowing:**

Rinse out mouth and drink water. Don't induce vomiting, risk of aspiration. Take medical advice immediately.

5. **Fire-fighting measures**

**Suitable means for extinguishing:**

Carbon dioxide, foam, powder, sand, water mist

**Unsuitable means for extinguishing:**

Water jet

**Special hazards caused by the substance, its combustion products or arising gases:**

Product fumes and air can cause explosive conglomerates heavier than air. Inflammation by hot surfaces, unshielded flames and sparks.

Don't inhale combustion gases. Carbon monoxide, carbon dioxide and soot can develop.

**Special protective equipment in closed rooms:**

Use breathing apparatus independent from ambient air.

**Additional information:**

Cool endangered containers externally with water

Fire class according to DIN-EN 2: B

6. **Measures in case of unintended release**

**Personal precautions:**

Caution of wet floor by leaking product.

Avoid inhalation of product fumes. Keep product away from ignition sources, don't smoke.

**Environmental precautions:**

It's not allowed to drain into environment, into bodies of water or sewage system.

Avoid soil contamination.

**Methods for cleaning (up):**

Solid: remove product mechanically

Liquid: use binder to bind liquid product, than remove it mechanically.

7. **Handling and storage**

**Handling**

**Advices for safe handling:**

No special measures necessary while using product correctly.

Avoid skin- and eyes contact.

**Advices for product against fire and explosion:**

Product mist and air can cause explosive conglomerate.

**Storage**

**Requirements for storerooms and containers:**

Store the product cool, dry and in closed barrels devoid of light. Avoid storage nearby ignition or heat sources.

Take measure against electrostatic charging. Earth appliances.

**Information for storage together with other products:**

Avoid storage together with strong oxidising agents.

8. **Exposure controls / personal protection**

Ingredients with occupational exposure limits should be monitored:

1. **Germany/Switzerland/Austria**

There is no AGW-value for paraffin wax.

2. **Germany:**

For aerosols and fine dust AGW-value of 3 mg/m<sup>3</sup> has to be kept to.

3. **USA**

TLV-value for paraffin vapour: 2 mg/m<sup>3</sup>

**Technical measures of control and air ventilation.**

Ensure good ventilation at workplace in case of handling the product in closed rooms with higher temperature. Product concentration is to be kept under exposition threshold values.

**Personal protective equipment:**

**Hand protection:** protective gloves made of rubber

**Eye protection:** safety goggles

**Body protection:** protective clothes

**Breathing protection:** In case of arising gases and inadequately ventilation at workplace use breathe apparatus.

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**9. Physical and chemical properties**

<b>Physical state:</b>	at room temperature liquid
<b>Colour:</b>	clear (liquid), whitish (solid)
<b>Odour:</b>	odourless
<b>pH-value at 20°C:</b>	n.e.
<b>Melting point (OECD 103):</b>	4 – 7 °C
<b>Typical:</b>	6 °C
<b>Boiling range (OECD 103):</b>	245 – 285 °C
<b>Flash point:</b>	approx. 122 °C
<b>Auto flammability:</b>	> 200°C
<b>Explosive limit in air:</b>	0.6 - 7Vol.-%
<b>Vapour pressure at 50°C (OECD104):</b>	0 kPa
<b>Vapour density:</b>	> 1
<b>Density at 20°C (DIN 51 757):</b>	0.766 g/ml
<b>Solubility at 20°C - in water:</b>	< 0.1 mg/l
<b>Viscosity at 25°C (Brookfield):</b>	18.67 mm <sup>2</sup> /s
	n.a. = not applicable; n.e. = not established

**10. Stability / reactivity**

**Conditions to avoid:**  
No hazard reactions under normal conditions.  
Avoid high thermal load.

**Material to avoid:**  
Strong oxidising agents.

**Decomposition products:**  
None.

**11. Toxicological information**

**Acute toxicity :**

Orale LD50:	> 5000 mg/kg (Rat)
Dermale LD50:	>2000 mg/kg (Rat)
Chronically toxicity:	LOEL = 9600 mg/kg (skin, mouse, 140 days) (C14)

  

Skin irritation:	slightly irritant
Eye irritation:	slightly irritant
Sensitisation:	not available
Mutagenic:	not mutagenic
Carcinogenic:	not carcinogen

**12. Environmental details**

Avoid drain into environment.

**Elimination/persistence and degradability:**  
Easy biological degradable (OECD 301 F).

**Aquatic toxicity:**

LC50 / fish:	no reaction
EC50 / daphnia (2 days):	no reaction
EC50 / algae (3 days):	no reaction

**13. Disposal considerations**

After reprocessing, the product can get used again or utilised thermally; otherwise it can be disposed off after consultation with authorities according to the following waste disposal codes (European Waste Catalogue):

<u>EWC-Code</u>	<u>Description</u>
07 01 04	other organic solvent washing liquids and mother liquors
07 01 99	wastes not otherwise specified

**Packaging:**

**Drums:** can be returned to supplier or producer

**14. Transport information**

Product is not a hazardous good according to ADR/RID: GGVs/GGVE, ADN/ADN; IMDG/GGVSee; ICAO-TI and IATA-DGR).  
No dangerous good.

**15. Statutory provisions**

**Labelling in accordance with the EEC directives:**

Xn                      harmful

**Risk-phrase, R-phrase:**

R 65                      Harmful. In case of swallowing product lung damage can be caused.

**Safety advice, S-phrase:**

S 2                              keep away from children  
S 23                             Do not inhale gas/smoke/fumes/aerosol  
S 24                             Avoid skin contact  
S 62                             In case of swallowing do not induce vomiting!  
                                      Take medical advice and show packaging and label.

**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 RUBITHERMS 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 questions please call number given in point 1.

**Rubitherm-Technologies GmbH**