

EEC-Safety data sheet
PHASE CHANGE MATERIAL

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

1. Chemical product and company identification

RUBITHERM® GR 50 (1-3)

Manufacturer/supplier:

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

Emergency telephone:

Tel.: +49 30/720004-62

2. Potential hazards

Potential dangers for health and environment:

No hazards known. No dangerous substance in the sense of the Ordinance on Hazardous Substances.

3. Composition/information of ingredients

Chemical characterisation:

Paraffin on inorganic base

CAS-No.: 8002-74-2; 61790-53-2

EINECS-No.: 232-315-6

4. First-aid measures

Inhalation:

Take concerned person to fresh air. In case of lasting aches and pain take medical advices.

Eye contact:

Rinse out eyes with cold water. In case of irritation take medical advices immediately.

Skin contact:

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

In case of swallowing:

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

5. Fire-fighting measures

Suitable means for extinguishing:

Foam, water mist, sand, carbon dioxide, powder

Unsuitable means for extinguishing :

Water jet

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

Don't inhale combustion gases and suspended matter which formed by combustion. Carbon monoxide, carbon dioxide and soot can also develop.

Special protective equipment in closed rooms:

Use breathing apparatus independent from ambient air.

6. Measures in case of unintended release

Personal precautions:

No special measure necessary.

Environmental precautions:

It's not allowed to drain product into environment.

Methods for cleaning:

Clean spilling material mechanically.

7. Handling and storage

Handling

Advices for safe handling:

No special measures while using product correctly.

Storage:

Store the product cool and dry. No legal regulation concerning storage.

VCI storage class: 11

8. Exposure restrictions and personal protective equipment

Ingredients with occupational limits should be monitored:

Threshold values don't exist.

Personal protective equipment:

No protective clothes necessary.

9. Physical and chemical properties

Physical state:	solid
Colour:	auburn
Odour:	odourless
pH-value:	n.a.
Melting area:	45 – 51 °C
typical:	49 °C
Flash point (DIN-ISO 2592):	approx. 190 °C
Vapour pressure at 20°C:	< 0.01 hPa
Mean Density at 20°C:	0.849 g/ml
Solubility at 20°C - in water:	insoluble
	n.a. = not applicable

10. Stability and reactivity

Conditions to avoid:

The product is chemically inert to all chemicals except for hydrofluoric acid.

Materials to avoid: strong oxidising agents

Decomposition products: None, while using as instructed.

11. Toxicological information

Orale LD50:	>5000 mg/kg (Rat)
Dermale LD50:	>2000 mg/kg (Rat)

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

12. Environmental details

The product is water-insoluble; therefore it can be eliminated in purification plants.

Information for elimination (persistence and degradability):

biodegradable

Fish toxicity:

LC50 / fish (2 days):	no effect (saturated solution)
EC50 / daphnia (2 days):	no effect (saturated solution)
EC50 / algae (3 days):	no effect (saturated solution)

13. Disposal considerations

Disposal after consultation authority according to the following waste disposal codes (European Waste Catalogue):

<u>EWC-Code</u>	<u>Description</u>
07 01 99	Wastes not otherwise specified
12 01 12	Spent waxes and fats

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14. Transport information

No hazardous material in the meaning of RDA/RID; GGVS/GGVE;
ADNR/ADN; IMDG/GGVSee; ICAO-TI and IATA-DGR.

15. Statutory provisions

Classification and labelling: inflammable

Risk phrases:

R 10 inflammable

Safety phrases:

S 16 keep away from ignition sources – don't smoke

National regulations

Germany:

Water hazard class (WGK): Not water endangering
substance according to Annex I VwVwS

16. Other information

Literature:

Ullmann's Encyclopedia of Industrial Chemistry, 5th
Edition, Vol. A 28, Chapter „Waxes“, Verlag Chemie
GmbH, 1996.

Shubik et al., Toxicol. Appl. Pharmacol., 4, Suppl. 1-62,
1962

This safety data sheet describes a product group. It contains
only safety related information. For specific data see product
data sheet.

The information on this data sheet 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 questions please call number given in point 1.

Rubitherm Technologies GmbH
