

**Safety data sheet according to regulation
(EC) No 1907/2006 and (EC) No 1272/2008**



Trade name: Multitherm 550
Created on: 11.05.2009
Issue date: 01.06.2015
Version: V2.1
Replaces former version: V2.0
Revision datet: 20.09.2017
File name: Multitherm550_en_SDB

1. Designation of Material/Preparation/ and Company

Trade name : Multitherm 550

REACH registration number: none

Product Information: Thermal insulation of industrial equipment

Manufacturer/Supplier:

Techno-Physik Engineering GmbH
Schürmannstrasse 27- 31
D- 45136 Essen

phone / fax / e-mail

+49 / 201 / 87991-1 / +49 / 201 / 87991-99 / info@Techno-Physik.com

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

2.3 Other hazards Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

3. Composition/information on ingredients

3.1 Chemical character isation: Substances

CAS No. Description: Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content greater than 18% by weight and fulfilling one of the note Q conditions

Identification number(s):

EC number: 926-099-9

4. First aid measures

4.1 Description of first aid measures

General information: If symptoms persist or in case of doubt, seek medical advice.

After inhalation: Supply fresh air; consult a doctor in case of pain.

After skin contact: Remove dust mechanically first. Wash with water. Do not rub.

After eye contact: Rinse the eyes with open eyelids for 10 - 15 minutes with water.

Do not rub. If symptoms persist, consult a doctor.

After swallowing: Rinse mouth with water. Spit liquid out again. If symptoms persist, consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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4.3 Indication of any immediate medical attention and special treatment needed:

Symptomatic treatment

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

The product is not combustible and does not support any combustion.

Use fire fighting measures suiting the environment.

For safety reasons unsuitable extinguishing agents: No data available

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released: Noxious gases/vapours

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

Additional information:

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage system.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Do not breathe dust

Keep people at a distance and stay on the windward side.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to penetrate the ground/soil.

In case of seepage into the ground inform responsible authorities.

Make sure to recycle or dispose of in suitable receptacles.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Do not use a vacuum cleaner.

Avoid any dust formation. Pick up with a tested and approved industrial vacuum cleaner if necessary.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information

7. Handling and Storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Provide suction extractors if dust is formed.

Keep the working area dry and clean.

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.

Information about protection against explosions and fires:

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Dust may combine with air to form an explosive mixture.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Observe the general rules of industrial fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store at ambient temperatures and under dry conditions.
Store only in unopened original receptacles.

Information about storage in one common storage facility:

Store away from foodstuffs.
Store away from feed.

Further information about storage conditions:

Keep receptacle tightly sealed.
Protect from humidity and water.

Storage class: 13 Non combustible solid

7.3 Specific end use(s) No further relevant information available

8. Exposure controls/personal protection

Additional information about design of technical systems:

Install appropriate mechanical ventilation.
No further data; see section 7.

8.1 Control parameters

Components with limit values that require monitoring at the workplace: Not required

CAS No. Designation of material % Type Value Unit

Additional Occupational Exposure Limit Values for possible hazards during processing:

Observe general threshold limit for dust.

Additional information: The lists that were valid during the creation were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures should be adhered to when handling chemicals.

Do not eat, drink, smoke or sniff while working.

Clean contaminated clothing, do not blow off or brush (no vacuum).

After skin contact, cleanse skin thoroughly.

After contact with eyes, rinse immediately.

Breathing equipment:

At formation of dust:

In case of brief exposure or low pollution use a respiratory filter device. In case of intensive or longer exposure use a respiratory protective device that is independent of circulating air.

Protection of hands:

Wear gloves for the protection against mechanical hazards according to EN 388. The glove material has to be impermeable and resistant to the product/substance/preparation.

Due to missing tests no recommendation to the glove material can be given for the product / preparation / chemical mixture. Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation

Material of gloves:

For undissolved solid substances following materials may be suitable:

nitrile rubber (NBR), butyl rubber (BR), fluorocarbon rubber (FKM) and polychloroprene rubber (CR)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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Penetration time of glove material:

The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses with side shields EN 166

Body protection: Protective work clothing

9. Physical and chemical Properties

9.1. Information on basic physical

General Information:

Appearance:

Form:	Fibres
Colour:	White
Odour:	Odourless
Odour threshold:	Not determined
pH-value:	Not applicable

Change in condition:

Melting point/Melting range:	>400 °C
Boiling point/Boiling range:	Not determined
Flash point:	Not applicable
Flammability (solid, gaseous):	Product is not flammable.

Ignition temperature:

Decomposition temperature:	Not determined
Self ignition temperature:	Not determined
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not applicable
Upper:	Not applicable

Vapour pressure:

Density:	Not applicable
	Not determined

Relative density:

Vapour density:	Not determined
Evaporation rate:	Not applicable
Solubility in / Miscibility with Water:	Not applicable
Partition coefficient (n-octanol/water):	Not determined
	Not determined

Viscosity:

dynamic:	Not applicable
kinematic:	Not applicable

9.2 Other information

No further relevant information available

10. Stability and Reactivity

10.1 Reactivity No further relevant information available

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications. Avoid temperatures above 900 °C.

10.3 Possibility of hazardous reactions No dangerous reactions known

10.4 Conditions to avoid Protect from humidity and water. Temperatures > 900 °C

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10.5 Incompatible materials: No further relevant information available

10.6 Hazardous decomposition products: No hazardous decomposition products if instructions for storage and handling are followed

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification: No toxicity data are available for the product itself.

Primary irritant effect:

Skin corrosion/irritation

No irritating effect; however, long or repeated mechanical contact may lead to redness and slight irritation.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Other information (about experimental toxicology): These materials have been designed to allow rapid clearance from lung tissue. And this low biopersistence has been confirmed in on CM210 using EU protocol ECB/TM/27.

Carcinogenic, mutagenic effects and adverse effects on reproduction: No cancer inducing effects in animal tests

Subacute to chronic toxicity:

STOT-single exposure: No classification

STOT-repeated exposure: No classification

Aspiration hazard: Not relevant

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity:

Inhalative NOAEC (canc) 30 mg/m³ (rat)

Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met

12. Ecological information

12.1 Toxicity

Aquatic toxicity: LC₅₀/96h >1000 mg/l (Danio rerio) (OECD 203)

NOEC ≥ 1000 mg/l (Daphnia magna) (OECD 202)3d

≥ 1000 mg/l (Pseudokirchneriella subcapitata) (OECD 201)3d

12.2 Persistence and degradability: No further relevant information available

12.3 Bioaccumulative potential: No further relevant information available

12.4 Mobility in soil: No further relevant information available

Additional ecological information:

General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous to water

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water even if small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

12.6 Other adverse effects: No further relevant information available

13. Disposal considerations

13.1 Waste treatment methods

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Recommendation:

Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European Waste Catalogue based on the identification of the waste generating source. Smaller quantities can be disposed of with household waste.

European waste catalogue:

17 00 00 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)

17 06 00 insulation materials and asbestos-containing construction materials

17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

14. Shipping Data

14.1 UN-Number ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA Class	Void
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user:	Not applicable
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:	Not applicable
UN "Model Regulation":	Void

15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

National regulations

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water

Further information:

For this substance/mixture no safety data sheet needs to be generated according to Article 31(1) of Regulation (EC) No 1907/2006. The here presented safety data sheet may therefore not fulfil all requirements of Annex II of this regulation.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Reasons for amendments: No change required according to maintenance check.

Replaces version dated: 4.11.2015

Department issuing SDS:

Techno-Physik Engineering GmbH; Schürmannstrasse 27- 31; 45136 Essen; Germany
phone +49 / 201 / 87991-1; fax +49 / 201 / 87991-99

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the international Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Sources: IUCLID-Dossier from EC
