

isoTHERM® 800, 800 CG, CGG, 1000, HT, SSF rot, -EXTRA, self-adhesive, coated with graphite, AF 300 H

Revision date: 25.03.2021

Product code: FZT-001

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

isoTHERM® 800, 800 CG, CGG, 1000, HT, SSF rot, -EXTRA, self-adhesive, coated with graphite, AF 300 H

Further trade names

isoTHERM® 800, 800 CG, 800 CGG, 1000, HT, SSF rot, -EXTRA, self-adhesive, coated with graphite, AF 300 HT, AF 380 HT, AF 390 HT, AF 700 HT and GTH-Fibrefill.

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Application, depending on the product type: Insulation, insulation pillows, sealing, thermal protection, thermal insulation, sound protection, personal protection, property protection, fire protection, and fire blankets

Product types: Cords, knitted ropes, sleeveings, packings, woven tapes, woven fabrics, fire blankets, safety blankets, needlemats, mats, and pillows. Finished, coated or combined with one another.

Uses advised against

The product is only to be used for the intended application.

1.3. Details of the supplier of the safety data sheet

Company name: Frenzelit GmbH

Post-office box: 1140

D-95456 Bad Berneck

Telephone: +49(0)9273 72 0

Contact person: Anforderung SI über
Vertriebsabteilung

Telephone: +49(0)9273 72 109

Further Information

This material is an article as defined in Article 3.3 of Regulation (EC) No. 1907/2006 (REACH). The supplier is not obliged to provide a safety data sheet for these products, since in accordance with Article 31 this is only mandatory for hazardous substances and mixtures. Frenzelit GmbH provide this safety information and, if necessary, further information on risk assessment on request.

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

The articles do not meet the criteria for classification and labeling according to Regulation (EC) no. 1272/2008.

2.2. Label elements**Additional advice on labelling**

The product is not subject to labelling.

2.3. Other hazards

Mineral fibres (without exception) of a diameter larger than 5 µm, can cause reversible mechanical irritations to the eyes and the skin as a result of the fibre diameter. In high concentrations of dust the upper respiratory system can be affected by mechanical irritations. If an excessive amount of fibrous dust is generated during any mechanical treatment of the material, it can be reduced by dust exhaust systems or by natural ventilation.

SECTION 3: Composition/information on ingredients**3.1. Chemical characterization**

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isoTHERM 800, 800 CG, HT, AF 300 HT, AF 380 HT, AF 390 HT, AF 700 HT and GTH-Fibrefill: Article made of HT glass fibres, alkali content < 1%, organic impurities < 1.5 %.

isoTHERM 800 CGG: isoTHERM 800 CG with coating of magnesium silicate, organic binder and pigment.

isoTHERM 1000: Product made of converted aluminium borosilicate glass fibres (E-glass), alkali content < 1%, organic impurities < 3 %.

Organic impurities: Textile starch sizing Textile finishing with a thermally crosslinked blend of polyethylene and silicone dispersion.

Cut proof coating: Polyacrylate base. SSF red: Cut proof coating with color pigment.

Type-related: Vermiculite coating. **Self-adhesive:** Transfer adhesive acrylic based.

Graphitised: Coating of graphite/natural rubber.

Rubber coating: Natural rubber coating.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

In case of troubles or persistent symptoms, consult an doctor/physician.

After inhalation

Inhalation of dust may cause irritation of the respiratory system. Provide fresh air. Drink water as a precaution.

After contact with skin

Wash with plenty of water. After cleaning apply high-fat content skin care cream. Do not subject to friction.

After contact with eyes

Rinse immediately and thoroughly with water. If foreign bodies have gotten into the eyes, do not rub them.

After ingestion

No information available.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Atomized water. Carbon dioxide (CO₂). Extinguishing powder. alcohol resistant foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

It may produce hazardous fumes like carbon monoxide, carbon dioxide or nitrogen oxides.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. In exceptional situations (eg accidental release of substances, occupational exposure limit is exceeded) the wearing of respiratory protection and protective clothing is required.

6.2. Environmental precautions

No information available.

6.3. Methods and material for containment and cleaning up

While mechanical processing: Prevent formation of dust and aspirate developing dust.

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6.4. Reference to other sections

Handling and storage: see section 7
Personal protection equipment: see section 8
For waste disposal see section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

While mechanical processing: Prevent formation of dust and aspirate developing dust.

Advice on protection against fire and explosion

No special measures are necessary.

Further information on handling

Clean contaminated clothing before reusing them. If rash occurs, seek medical advice immediately.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

No special measures are necessary.

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

No special measures are necessary.
Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Application, depending on the product type: Insulation, insulation pillows, sealing, thermal protection, thermal insulation, sound protection, personal protection, property protection, fire protection, and fire blankets

Product types: Cords, knitted ropes, sleeveings, packings, woven tapes, woven fabrics, fire blankets, safety blankets, needlemats, mats, and pillows. Finished, coated or combined with one another.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Protective and hygiene measures

Wash hands before breaks and after work. Avoid skin, eye and clothing contact. After contact with skin, wash immediately with plenty of water and soap or a suitable cleaning agent.
Use of a lipid replenishing hand cream is recommended.

Eye/face protection

At high fiber dust concentration or overhead work, tight fitting safety glasses with side shields conforming to EN166 use.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The glove material has to be impermeable and resistant to the product / the substance / the mixture. When selecting the glove material, observe breakthrough times, permeation rates and degradation.

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Suitable material: Protective gloves made from PVC, fabric or leather (providing insulation against the melted product).

In case of prolonged or repeated contact use also protective barrier creams for the skin areas that come into contact with the product. Follow the recommendations of the barrier cream manufacturer.

Skin protection

Usual work clothing recommended. In case of very high dust exposure, suitable overclothing (disposable suit) should be worn in addition to avoid heavy dusting of work clothes.

Respiratory protection

Dust mask according to DIN EN 140 or 149 (FFP1 or FFP2).

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: solid
Colour: various
pH-Value: no data available

Changes in the physical state

Melting point/freezing point: no data available
Softening point: > 800 °C
Flash point: no data available

Flammability

Gas: no data available

Explosive properties

The product is not explosive.

Lower explosion limits:

Upper explosion limits:

Self-ignition temperature

Gas: no data available

Decomposition temperature: no data available

Oxidizing properties

no data available

Density (at 20 °C): 2,4 g/cm³

Bulk density: nicht anwendbar

Water solubility: nicht anwendbar

Solubility in other solvents

no data available

Partition coefficient n-octanol/water: no data available

Viscosity / dynamic: no data available

Viscosity / kinematic: no data available

Flow time: no data available

Relative vapour density: no data available

Solvent separation test: no data available

9.2. Other information

no data available

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SECTION 10: Stability and reactivity**10.1. Reactivity**

No dangerous reactivity under regular conditions.

10.2. Chemical stability

The product is stable under regular conditions.

10.3. Possibility of hazardous reactions

Contact with hydrofluoric acid (HF) produces silicon tetra fluoride (SiF₄)
In case of fire or overheating hazardous fumes may develop.

10.4. Conditions to avoid

Natural rubber coating: from approx. 90 °C on the natural rubber starts to lose some of its elasticity. Organic accompanying substances (sizing) at ca.120°C. Transfer adhesive at ca. 150°C. Coating at ca.180°C. Silicone at ca. 250°C. Cut proof/self-adhesive: At first shock heating to high temperatures the organic components decompose within short, brief flashing may occur.

10.5. Incompatible materials

Strong acids., Strong oxidizing agents

10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide.

Further information

cut proof/self-adhesive: In normal first heating above 180 ° C, the organic portions under smoke slowly begin to decompose. Ventilate if necessary.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

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

Irritation and corrosivity

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

By coarser fibres can cause mechanical effects to the skin, connective or mucosa, which may cause temporary, self-decaying phenomena (z. B. itching), as they also occur with other fibres and non-fibrous particles. Adequate work clothing protects.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

The glass filament fibres in this article have a continuous diameter > 6 microns, and thereby do not fulfil the definition of dangerous classified mineral wools or E-glass microfibers with random orientation (typically produced by flame attenuation and rotary process) according to EU Regulation 1272/2008.

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.

Aspiration hazard

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

SECTION 12: Ecological information**12.1. Toxicity**

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No data available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The product does not meet the PBT or vPvB criteria in Annex XIII of the REACH Regulation.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

List of Wastes Code - residues/unused products

101103 WASTES FROM THERMAL PROCESSES; wastes from manufacture of glass and glass products; waste glass-based fibrous materials

Contaminated packaging

Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)**14.1. UN number:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)**14.1. UN number:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

Information Sheet for Articles

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ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No special precautions known.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Additional information

Regulation (EC) No. 648/2004 (Detergents regulation): not applicable
Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants: not applicable
Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).
This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none
This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water hazard class (D): - - non-hazardous to water

SECTION 16: Other information

Changes

Version 1,8 - 26.03.2021 - General update

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)
BlmSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act
CAS: Chemical Abstracts Service
DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization)
EC: Effective Concentration
EG: European Community (Europäische Gemeinschaft)
EN: European Norm
IATA: International Air Transport Association
IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
ISO: Norm of the International Standards Organization
CLP: Classification, Labeling, Packaging
IUCLID: International Uniform Chemical Information Database
LC: Lethal concentration

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LD: Lethal dose
log Kow: Octanol/water partition coefficient
MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships
OECD: Organisation for Economic Co-operation and Development
PBT: Persistent, bio-cumulative, toxic
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
TRGS: Technische Regeln für Gefahrstoffe
UN: United Nations
VOC: Volatile Organic Compounds
vPvB: very persistent and very bio-cumulative
WGK: German Water Hazard Class
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
TLV: Threshold Limiting Value
STOT: Specific Target Organ Toxicity
AwSV: Ordinance on Installations for Handling Substances Hazardous to Water

Further Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)