SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Material number : 1411970
Trade name : 1411970
PTCR ZTH 560-660°C (7 mm), 600/Box

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Controlling the firing temperature of the ceramic pieces in continuous or intermittent kiln.

1.3 Details of the supplier of the safety data sheet

Company : Ferro GmbH
Gutleutstraße 215
60327 Frankfurt am Main
Telephone : +4969271160
Telefax : +496927116333
E-mail address : sdb@ferro.com
Responsible/issuing person

1.4 Emergency telephone number

CHEMTREC Global Number : +(1)-703-527-3887(Call Collect)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.
This document has been developed with the exclusive purpose of complying with the obligation of informing the supply chain according to article 32 of the Reach regulation, because this material is not classified and does not require a material safety data sheet.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.
2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures
Chemical nature: inorganic salt
glass/frit
carbohydrate/(derivative of) cellulose

Hazardous components
Remarks: No hazardous ingredients

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures
General advice: Do not leave the victim unattended.
If inhaled: If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.
In case of skin contact: Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
In case of eye contact: Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
If swallowed: Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed
Symptoms: None known.
Risks: None known.

4.3 Indication of any immediate medical attention and special treatment needed
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Treatment: The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid dust formation. No conditions to be specially mentioned.

6.2 Environmental precautions

Environmental precautions: No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.
SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling: For personal protection see section 8. No special handling advice required. Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures: General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage: No special restrictions on storage with other products. No materials to be especially mentioned.

Other data: No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s): Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

No data available

Personal protective equipment

Eye protection: Safety glasses

Hand protection: For prolonged or repeated contact use protective gloves.

Skin and body protection: Protective suit

Respiratory protection: No personal respiratory protective equipment normally
Protective measures

: Wear suitable protective equipment.
: When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance : solid
Colour : white
Odour : odourless
Odour Threshold : No data available
pH : Not applicable
Melting point/range : No data available
Boiling point/boiling range : Not applicable
Evaporation rate : Not applicable
Flammability (solid, gas) : not auto-flammable
Vapour pressure : No data available
Relative vapour density : Not applicable
Relative density : No data available
Bulk density : No data available
Solubility(ies)
   Water solubility : No data available
   Solubility in other solvents : No data available
 Partition coefficient: n-octanol/water : No data available
Viscosity
   Viscosity, kinematic : Not applicable
Explosive properties : Not explosive
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Oxidizing properties: No data available

9.2 Other information
  Refractive index: Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
  Stable under recommended storage conditions.

10.2 Chemical stability
  No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions
  Hazardous reactions: No hazards to be specially mentioned.

10.4 Conditions to avoid
  Conditions to avoid: No data available

10.5 Incompatible materials
  Materials to avoid: No data available

10.6 Hazardous decomposition products
  Stable under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
  Not classified based on available information.
  Product:
    Acute oral toxicity: Remarks: No data available
    Acute inhalation toxicity: Remarks: No data available
    Acute dermal toxicity: Remarks: No data available

Skin corrosion/irritation
  Not classified based on available information.

Serious eye damage/eye irritation
  Not classified based on available information.
Respiratory or skin sensitisation
Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

Product: 
Remarks: No data available

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.

Reproductive toxicity
Not classified based on available information.

STOT - single exposure
Not classified based on available information.

STOT - repeated exposure
Not classified based on available information.

Aspiration toxicity
Not classified based on available information.

Further information

Product: 
Remarks: No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Product:
Ecotoxicology Assessment
Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

12.2 Persistence and degradability

Product:
Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

Product:
Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

Product: Distribution among environmental compartments : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product: Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product: Additional ecological information : Remarks: No data available

There is no data available for this product.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good
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14.5 Environmental hazards
Not regulated as a dangerous good

14.6 Special precautions for user
Remarks: No information available.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
Ship type: N/A
Pollution category: N/A

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- International Chemical Weapons Convention (CWC): Neither banned nor restricted
- Schedules of Toxic Chemicals and Precursors: Neither banned nor restricted
- REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): Neither banned nor restricted
- Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Neither banned nor restricted
- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
- REACH - List of substances subject to authorisation (Annex XIV): Neither banned nor restricted
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Neither banned nor restricted
- Regulation (EC) No 850/2004 on persistent organic pollutants: Neither banned nor restricted

The components of this product are reported in the following inventories:
EINECS (European Union): On the inventory, or in compliance with the inventory
SWISS (Switzerland): On the inventory, or in compliance with the inventory
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TSCA (United States) : On TSCA Inventory

DSL/NDSL (Canada) : This product contains components listed on the Canadian NDSL. All other components are on the Canadian DSL.

AICS (Australia) : On the inventory, or in compliance with the inventory

NZioC (New Zealand) : On the inventory, or in compliance with the inventory

ENCS (Japan) : On the inventory, or in compliance with the inventory

ISHL (Japan) : Not in compliance with the inventory

KECI (Korea) : On the inventory, or in compliance with the inventory

PICCS (Philippines) : Not in compliance with the inventory

IECSC (China) : On the inventory, or in compliance with the inventory

TCSI (Taiwan) : On the inventory, or in compliance with the inventory

CICR (Turkey) : Not in compliance with the inventory

INSQ (Mexico) : Not in compliance with the inventory

15.2 Chemical Safety Assessment
Not applicable

SECTION 16: OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
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