EXOTHERMIC FEEDING SLEEVES

1. COMPOSITION AND INFORMATION ON INGREDIENTS

Product description: Colour buff, exothermic refractory ceramic fibre shape for use as foundry riser sleeve.

SUBSTANCE CONCENTRATE CAS NO. R.PHRASES
- Aluminum Granules > 30% 7429-90-5 R10-15
- Alumino Silicate Ceramic > 40% 85997-17-3 R40,R20,R36/37/38
- Silica > 20% 14808-60-7 Respirable Fraction > 1%

2. HAZARDS IDENTIFICATION

Presented as a formed shape. Cutting or abrasion will release dust and fibres should be avoided and respiratory protection used. Based on animal studies excessive exposure to refractory ceramic fibres as possible carcinogenic (Classe 2) to humans and crystalline silica as probable carcinogenic to humans. Temperatures in excess of 500°C are needed to instigate combustion. The shape will burn with an exothermic reaction-emitting fume when ignited. Burn temperature can reach 2000°C. The sleeve contains its own oxidation source and will continue to burn until fuel is exhausted.

Health Effects
- Eyes: Dust will cause irritations
- Skin: Material may cause irritation if handled
- Ingestion: May cause irritation of mouth, throat and digestive tract
- Inhalation: Inhalation of powder or fume during burning may cause irritation of nose, throat and respiratory tract.

3. FIRST AID MEASURES

- Skin: Rinse affected areas with water and wash gently with soap. Do not use detergents.
- Eyes: Flush eyes with large quantities of water. Have eye bath ready for where eye contact may occur.
- Ingestion: Drink Plenty of water
- Inhalation: Remove to fresh air. Drink water to clear throat and blow nose to evacuate dust

First Aid: Acute irritation and/or inflammation is due to mechanical action
General Precautions: Seek medical attention if symptoms persist

4. FIRE FIGHTING MEASURES

Suitable extinguishing media: Dry Sand

DO NOT USE WATER OR HALOGENATED EXTINGUISHING MEDIA

Special Hazards: Material burns with exothermic reaction to very high temperature. Oxidation source contained in the product will maintain the burn reaction making extinguishing difficult. Apply above extinguishing media and allow material to burn whilst safeguarding surroundings.
5. **ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS**  * Wear appropriate dust masks and clothing if damaged items create duct.

**ENVIRONMENTAL PRECAUTIONS**  * Do not allow to enter drains or watercourses. Do not allow dust to be windblown.

**SPILLAGES**  * Pick up large pieces and use vacuum cleaner with exhaust filter for smaller pieces or dust. Wet the area before brushing up.

6. **HANDLING AND STORAGE**

**HANDLING**  * Keep dust level to a minimum and below exposure limit (OEL) or European ceramic Fibre Industry Association (ECFIA) recommended exposure guideline at 0,6% F/ml

**STORAGE**  * Store Dry

7. **EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Refractory Ceramic Fibre**  * MEL 2 F/ML 8h TWA

**Refractory Ceramic Fibre**  * MEL 5 mg/m³ 8h TWA

**Silica Crystalline Respiratory Dust**  * OEL 0,4 mg/m³ 8h TWA

**ENGINEERING CONTROL MEASURES**  * Use engineering control such as dust extraction at point of work to keep dust level to a minimum. Use suitable respirator if controls not adequate.

**HAND PROTECTION**  * Use gloves

**EYE PROTECTION**  * Wear goggles or safety glasses with side shields.

**SKIN PROTECTION**  * Wear overalls which are loose fitting at neck or wrist.

8. **PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE**  * Colour Buff, Rigid fibre shapes

**DENSITY**  * 500-1000 kg/m³

**ODOUR**  * Odorless

9. **STABILITY AND REACTIVITY**

**Stability**  * Stable under normal conditions

**Conditions to avoid**  * Sources of ignition, sparks and flame, exposure to water or moisture. Do not use wet shapes in contact with hot metal.

**Hazardous Decomposition**  * Ignition of the material causes burning with intense exothermic reaction. Fumes emitted during ignition may cause irritation.

10. **TOXICOLOGICAL INFORMATION**

Inhalation of refractory ceramic fibres may lead to respiratory damage and has been classified as a possible human carcinogen (Group 2B) by international Agency for Research on Cancer based on animal experiments in the absence of data on the carcinogenicity of ceramic fibres to humans.

11. **ECOLOGICAL INFORMATION**

NOT HAZARDOUS
12. DISPOSAL CONSIDERATIONS
The material prior to ignition and use should be bagged and declared for special disposal. Material after ignition is not classified as hazardous waste and may generally be disposed of at a normal tipping site, which has been licensed for the disposal of industrial waste. Product should be bagged or wetted to avoid creation of dust, which may be unacceptable at some tip sites.

13. TRANSPORT INFORMATION
Ensure dust is not windblown during transport

14. REGULATORY INFORMATION
See section 2

15. OTHER INFORMATION
Training in the safe handling of exothermic products containing refractory fibre is important.
Items are for industrial use only in approved applications
People wishing for other information can question the manufacture (address page 1).
The information given here are based on the state of our knowledge relevant to the product at the date of printing.
This information relates only to the material and its variants detailed in this data sheet.