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Other hazards

Under depleted oxygen conditions, a small amount of hydrogen will evolve if product is stored wetted or in slurry form with water for prolonged periods

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear appropriate protective clothing. Avoid creating a dust cloud.

Environmental precautions

No special measures required.

Methods for clean-up

Sweep up into suitable containers for re-use, recovery or disposal. Avoid creating a dust cloud. If wet, do not re-pack with dry material and do not place in a closed or sealed container.

7. HANDLING AND STORAGE

Handling

Avoid creating dust. Avoid inhaling dust. Keep container closed when not in use.

Storage

Storage area should be dry and well ventilated. Store in original containers. Suitable storage materials:

polypropylene bags.

Under depleted oxygen conditions, a small amount of hydrogen will evolve if product is stored in slurry form with water for prolonged periods. Equipment like magnetic separators, pumps or transfer pipes that may contain residual substance must be well ventilated before any maintenance work is carried out, especially maintenance involving hot work.

8. EXPOSURE CONTROLS

Occupational exposure limits

Nuisance dust – TWA (8hr) =10mg/m³

Occupational exposure controls

Use of the basic principles of Industrial Hygiene will enable this material to be used safely. Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. If engineering controls and work practices are not effective in preventing or controlling exposure, then suitable personal equipment, which is known to perform satisfactorily, should be used.

Respiratory protection

Mask should have a filtration efficiency of 95% minimum against PM10s. FFP2 masks recommended and should be replaced regularly.

Eye protection Safety spectacles or chemical goggles

Skin protection – hands Leather or other general purpose gloves.

Skin protection - body Normal work wear. Overalls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Metallic grey fine particles

Odour: None

Melting point: 1260 degC

Flash point: Not applicable, inorganic substance

Flammability: Not flammable

Explosive properties: Not explosive

Oxidising properties: Not oxidising

Vapour pressure: Not applicable, melting point >300 degC

Relative density: 6 – 7

Granulometry: PM10 content: <3%. PM20 content: 3-10%

Water solubility: Negligible

Partition co-efficient: (octanol/water) Not applicable, inorganic substance

Other properties: magnetic susceptibility Can be magnetized

Other properties: Phosphorous controlled phosphorus below 0,15%

10. STABILITY AND REACTIVITY

Conditions to avoid

Storage under wet or damp conditions

Materials to avoid

Strong acids

Hazardous decomposition products

Stable under normal conditions. Under depleted oxygen conditions, a small amount of hydrogen will evolve if product is stored in slurry form with water for prolonged periods. If exposed to water the material can harden and cause corrosion of metals. Corrosion inhibitors can be used to minimise this effect.

11. TOXICOLOGICAL INFORMATION

Toxicokinetic, metabolism and distribution

The product is expected to be poorly absorbed.

Acute effects (acute toxicity and irritation/Corrosivity)

The product is expected to have a low order of acute toxicity by all routes of exposure. The product is not expected to be irritant to the skin. The product may cause transient eye irritation.

Sensitisation

No known reports of skin sensitisation.

Repeat dose toxicity/Carcinogenicity

No component of this product at levels greater than 0.1% is identified as a carcinogen by the International Agency for Research on Cancer (IARC) or the European Commission (EC).

Mutagenicity

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.

Reproductive toxicity

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a reproductive toxin.

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a teratogenic or embryotoxic.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Based on its low water solubility, this product is expected to be practically non-toxic to aquatic species.

Mobility

If released to water the product will sink slowly. The product is insoluble in water. The product is not absorbed on to soil or sediments.

Persistence and degradability

The product is inorganic and not subject to biodegradation

Bioaccumulative potential

The product is expected to have a low bioaccumulation potential

13. DISPOSAL CONSIDERATIONS

Substance disposal

Dispose of in accordance with all applicable local and national regulations. Recycling or landfill is the recommended method of disposal.

Container disposal

Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate.

Labels should not be removed from containers until they have been cleaned. Do not incinerate closed containers.

Containers containing wet or damp material should not be closed or sealed.

14. TRANSPORT INFORMATION

Regulatory information UN number Proper shipping name Class Packaging group



Company Registration Number: 2012/119753/07

ADR/RID classification	Not classified
IMDG classification	Not classified
IATA classification	Not classified

15. REGULATORY INFORMATION

Hazard symbol: None

Indication of danger: None

Risk phrases: None

Safety phrases: None

Other

This datasheet was compiled from datasheets previously compiled in accordance to EU directives 1999/45/EC, 67/548 as amended and adapted and the parts of EU regulation 1907/2006 in force at the date of issue. REACH Pre-Registration No: 05-2116391803-39-0000

US regulatory:

TSCA: Listed under CAS number 12022-95-6

RCRA: not classified as a hazardous material under RCRA or its regulations 40 CFR 261

CERLA: not classified as a hazardous material under CERLA regulations 40 CFR 302

SARA: Not an extremely hazardous material under section 302 and not a toxic chemical subject to the requirements of 313.

16. OTHER INFORMATION

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