

Kyowa Chemical Industry Co., Ltd.
SAFETY DATA SHEETS

PYROKISUMA™ (Grade: 3320)

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE SUPPLIER

Product Name : PYROKISUMA™ (Grade: 3320)

Manufacturer

Company Name : Kyowa Chemical Industry Co., Ltd.
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Emergency telephone number

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2. HAZARDS IDENTIFICATION

GHS Classification

Physicochemical Hazards

| | | |
|---|---|-----------------------|
| Explosives | : | Out of classification |
| Flammable gases | : | Out of classification |
| Flammable aerosol | : | Out of classification |
| Oxidizing gases | : | Out of classification |
| Gases under pressure | : | Out of classification |
| Flammable liquids | : | Out of classification |
| Flammable solids | : | Not classified |
| Self-reactive substance and mixtures | : | Out of classification |
| Pyrophoric liquids | : | Out of classification |
| Pyrophoric solids | : | Not classified |
| Self-heating substance and mixtures | : | Not classified |
| Substance and mixtures which, in contact with water, emits flammable gases | : | Not classified |
| Oxidizing liquids | : | Out of classification |
| Oxidizing solids | : | Not classified |
| Organic peroxides | : | Out of classification |
| Corrosive to metals | : | Not classified |

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SAFETY DATA SHEETS

PYROKISUMA™ (Grade: 3320)

Health hazards

| | | |
|---|---|-----------------------------|
| Acute toxicity (oral) | : | Classification not possible |
| Acute toxicity (dermal) | : | Classification not possible |
| Acute toxicity (gases) | : | Out of classification |
| Acute toxicity (vapor) | : | Classification not possible |
| Acute toxicity (dust and mists) | : | Classification not possible |
| Skin corrosion / irritation | : | Classification not possible |
| Serious eye damage / eye irritation | : | Classification not possible |
| Respiratory or skin sensitization | : | Classification not possible |
| Germ cell mutagenicity | : | Classification not possible |
| Carcinogenicity | : | Classification not possible |
| Reproductive toxicity | : | Classification not possible |
| Specific target organ systemic toxicity (single exposure) | : | Classification not possible |
| Specific target organ systemic toxicity (repeated exposure) | : | Classification not possible |
| Aspiration hazard | : | Classification not possible |

Environmental hazards

| | | |
|--|---|-----------------------------|
| Hazardous to the aquatic environment (acute) | : | Classification not possible |
| Hazardous to the aquatic environment (chronic) | : | Classification not possible |
| Hazardous to the Ozone Layer | : | Not classified |

Labeling elements

: Nothing

Other hazard

| | | |
|--------------|---|--|
| Inhalation | : | May cause symptoms of mucus irritation, cough |
| Skin contact | : | Prolonged contact may cause skin irritation |
| Eye contact | : | May irritate mucus membranes |
| Ingestion | : | No symptoms occur at low dose levels but there may be nausea, vomiting at high dose levels |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Chemical name</u> | <u>Wt%</u> | <u>CAS registry #</u> |
|----------------------|---------------------------|-----------------------|
| Magnesium oxide | 100 | 1309-48-4 |
| <u>Synonym(s)</u> | Magnesium Oxide; Magnesia | |
| <u>EC No.</u> | 2151719 | |
| <u>TSCA</u> | Registered | |

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SAFETY DATA SHEETS

PYROKISUMA™ (Grade: 3320)

4. FIRST AID MEASURES

- Inhalation : Remove the exposed individual into fresh air and make him blow his nose and gargle.
- Eye contact : First rinse with plenty of water for several minutes (Remove contact lenses if easily possible), then take a doctor.
- Skin contact : Remove contaminated clothes, rinse skin with plenty of water or shower.
- Ingestion : Rinse mouth. Refer for medical attention.
- Note to physician : Treat symptomatically.
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5. FIRE FIGHTING MEASURES

- Extinguishing media : This product is non-flammable. All extinguishing agents allowed.
- Protection for firefighters : Firefighters should wear protective equipment.
- Particular firefighting : No contact with halogens or strong acids.
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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Wear proper equipment and avoid contact with skin and inhalation of dust.
- Environmental precautions : Do not discharge soil, subsoil, drain, surface water and groundwater.
- Removal : Vacuum or sweep up in a waste container. Wash away residue with plenty of water.
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7. HANDLING AND STORAGE

- Handling : It is better to wear proper protective equipment not to contact with skin or inhale the dust.
- Storage : This material should be stored in a dry place and the bag must be closed after use because of its hygroscopicity. This material must be stored to avoid contact with strong acids and halogens.
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SAFETY DATA SHEETS

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | |
|-------------------------------|---|--|
| Engineering controls | : | Prevent dispersion of dust. |
| Personal protective equipment | | |
| Eye / Face Protection | : | Safety Glasses |
| Skin Protection | : | Working clothes and rubber gloves (Nothing of particular protection) |
| Respiratory Protection | : | Dust mask (Extra personal protection: P1 filter respirator for inert particles) |
| Exposure Guidelines | : | OSHA PEL TWA (fume) : 15 mg/m ³ TWA (total particulate) : 10 mg/m ³ |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|--|---|---|
| Appearance | : | White powder |
| Odour | : | No information |
| Odour threshold | : | No information |
| pH | : | No information |
| Melting point | : | 2800°C |
| Initial boiling point | : | 3600°C |
| Flash point | : | No information |
| Evaporation rate | : | No information |
| Flammability | : | No information |
| Upper/lower flammability or explosive limits | : | No information |
| Vapour pressure | : | No information |
| Vapour density | : | No information |
| Relative density | : | 3.7 |
| Solubility | : | Slightly soluble in water. Soluble in mineral acid. |
| Partition coefficient: n-octanol/water | : | No information |
| Auto-ignition temperature | : | No information |
| Decomposition temperature | : | No information |
| Viscosity | : | No information |

Kyowa Chemical Industry Co., Ltd.
SAFETY DATA SHEETS

PYROKISUMA™ (Grade: 3320)

10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions
Reactivity : Reacts violently with strong acids and halogens.

11. TOXICOLOGICAL INFORMATION

Acute toxicity : If swallowed a large dose, may cause diarrhea
If inhaled the dust, nose, throat or trachea are irritated.
Human inhalation TCLo=400mg/m³
Skin corrosion/irritation : Not available
Eye irritation : If contacted with eyes, eyes are irritated
Respiratory or skin sensitization : Not available
Mutagenicity : Not available
Carcinogenicity : ACGIH classifies the group A4
(Not classifiable as a human carcinogen)
Aspiration hazard : Not available

12. ECOLOGICAL INFORMATION

Toxicity : Not available
Persistence and degradability : Not available
Bioaccumulative potential : Not available
Mobility in soil : Not available
Other adverse effects : Not available

13. DISPOSAL CONSIDERATIONS

Disposal methods : In accordance with the laws of your country.

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SAFETY DATA SHEETS

PYROKISUMA™ (Grade: 3320)

14. TRANSPORT INFORMATION

| | | |
|-----------------|---|----------------|
| NA | : | Not identified |
| UN No. | : | Not identified |
| ADR/RID | : | Not identified |
| IMO-IMDG code | : | Not identified |
| Hazard Label(s) | : | Unnecessary |

15. REGULATORY INFORMATION

| | | |
|--------------|---|---------|
| Symbol(s) | : | Nothing |
| R Phrase (s) | : | Nothing |
| S Phrase (s) | : | Nothing |

Please refer to any other national measures that may be relevant.

16. OTHER INFORMATION

No specific notes.

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