

Kyowa Chemical Industry Co., Ltd.
SAFETY DATA SHEETS

KW-2000

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE SUPPLIER

Product name : KW-2000

Manufacturer

Company Name : Kyowa Chemical Industry Co., Ltd.
Address : 4035 Hayashida-cho, Sakaide, Kagawa, 762-0012, Japan
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Emergency telephone number

Kyowa Chemical Industry Co., Ltd.
Telephone No. +81-(0) 877-47-4704 (Quality Assurance Dept.)
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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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Health hazards

Acute toxicity (oral)	:	Not classified
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	:	Category 1
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)	:	Category Acute 2 (CLP : Out of Classification)
Hazardous to the aquatic environment (chronic)	:	Category Chronic 2
Hazardous to the Ozone Layer	:	Not classified

Labeling elements

Hazard Pictogram:



Signal word:

Danger

Hazard statements:

H411: Toxic to aquatic life with long lasting effect
 H318: Causes serious eye damage.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P310

IF IN EYES: Rinse cautiously with water for several minutes.

Precautionary statements:

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P391 Collect spillage.

P501 Dispose of contents/container to authorized waste handling in accordance to national regulations.

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Other hazard

- Inhalation : May cause symptoms of mucus irritation, cough
Skin contact : Prolonged contact may cause skin irritation
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 Aluminum Oxide	100	11137-98-7
<u>Synonym(s)</u>		
<u>EC No.</u>	2343869	
<u>TSCA</u>	Registered	

4. FIRST AID MEASURES

Description of 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 see a doctor.
Skin contact : Remove contaminated clothes, rinse skin with plenty of water or shower.
Ingestion : Rinse mouth. In case of large amount, drink large quantity of water and induce vomiting. Refer for medical attention.
Note to physician : Treat symptomatically.

Most important acute/delayed symptoms and effect

- Inhalation : It may cause a cough by irritating mucosae.
Skin : Prolonged contact may cause skin irritation.
Eye : It may cause serious damage.
Ingestion intake : Ingestion in large quantities may cause nausea and vomiting.

5. FIRE FIGHTING MEASURES

- Flammable properties : Non-flammable
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6. ACCIDENTAL RELEASE MEASURES

Vacuuming or wet sweeping may be used to avoid dust dispersal.

- Land spill : Sweep together and dispose according to the laws of your country.
Water spill : Collect together and dispose according to the laws of your country.

7. HANDLING AND STORAGE

- Handling : It is better to wear proper protective equipment not to contact with skin or inhale the dust.
Avoid contact with eyes or skin, and avoid inhalation.
- Storage : This material should be stored in a dry place and the bag must be closed after use because of its hygroscopicity.
Keep away from odorous substances or volatiles (such as perchlorates, peroxides, permanganates, chlorates and nitrates) and chlorine trifluoride since violent reactions occur.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering controls : No specific controls are needed.
- Personal protective equipment
- Eye / Face Protection : Safety Glasses
Skin Protection : Working clothes and rubber gloves
(Nothing of particular protection)
Respiratory Protection : Mask
- Exposure guidelines : Not established

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : White powder
Odour : No information
Odour threshold : No information
pH : No information
Melting point : No information
Initial boiling point : No information

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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	:	3.1
Solubility	:	Insoluble 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

10. STABILITY AND REACTIVITY

Chemical stability	:	Stable under normal conditions
Conditions to avoid	:	Wet or high temperature
Hazardous decomposition products	:	Nothing
Hazardous reactions	:	Will not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity	:	Not available
Skin corrosion/irritation	:	Prolonged contact may cause skin irritation
Serious eye damage / eye irritation	:	Serious eye damage was confirmed by the bovine corneal opacity and permeability (BCOP) test.
Respiratory or skin sensitization	:	Not available
Mutagenicity	:	Not available
STOST-single exposure	:	Not available
STOST-repeated exposure	:	Not available
Aspiration hazard	:	Not available

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12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available)	:	Algal Growth Inhibition Test 72h-ErC50: 2.2 mg / L 72h-ErC10: 0.34 mg / L
Persistence and degradability	:	Not available
Bioaccumulative potential	:	Not available
Mobility in soil	:	Not available
Other adverse effects	:	Not available

13. DISPOSAL CONSIDERATIONS

Disposal : In accordance with the laws of your country.

14. TRANSPORT INFORMATION

UN No.	:	UN3077
Hazard Class	:	Class 9
UN proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Aluminum Magnesium Oxide)
Packing Group	:	PGIII
Environmental hazards	:	Classification code M7: Pollutant to the aquatic environment, solid
Land transportation	:	Follow the regulations of ADR/RID.
Marine transportation	:	Follow the regulations of IMO-IMDG code.
Air transportation	:	Follow the regulations of ICAO/IATA.

15. REGULATORY INFORMATION

No specific notes. Follow international regulations.

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16. OTHER INFORMATION

No specific notes.

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