

Kyowa Chemical Industry Co., Ltd.
SAFETY DATA SHEETS

KYOWAAD™ 200 (Grade: B)

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE SUPPLIER

Product Name : KYOWAAD™ 200 (Grade: B)

Manufacture

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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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>
Aluminum Hydroxide	100	21645-51-2
<u>Synonym(s)</u>	Aluminum Hydroxide	
<u>EC No.</u>	2444927	
<u>TSCA</u>	Registered	

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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. In case of large amount, drink large quantity of water and induce vomiting. Refer for medical attention.
Note to physician	:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing media	:	This product is noncombustible.
Protection for firefighters	:	Firefighters should wear protective equipment.

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.

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 tightly closed after use because of its hygroscopicity.

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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
Exposure Parameters : ACGIH (2002); 2mg/m³ (as Aluminum) (TLV-TWA)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : White powder
Odour : No information
Odour threshold : No information
pH : No information
Melting point : 2054°C(Al₂O₃)
Initial boiling point : 2980°C(Al₂O₃)
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 : 2.0
Solubility : Insoluble in water. Soluble in alkali.
Partially 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
Reactivity : May react with oxidizing substances.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity	:	Aluminum hydroxide LD ₅₀ —over 5000mg/kg oral rat ⁽¹⁾ LDLo—150mg/kg Intraperitoneal rat ⁽²⁾ TDLo—122mg/kg/4D oral human child ⁽³⁾
Skin corrosion/irritation	:	Not available
Eye irritation	:	If contacted with eyes, eyes are irritated
Respiratory or skin sensitization	:	Not available
Mutagenicity	:	Not available
Carcinogenicity	:	Not available
Aspiration hazard	:	Not available

(1) European Chemicals Bureau; IUCLID Dataset, Aluminum hydroxide (2000)

(2) LANCAO Lancet. Vol.1, Page 564, 1972

(3) JOPDAB Journal of Pediatrics. Vol.92, Page 592, 1978

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	:	In accordance with the laws of your country.
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14. TRANSPORT INFORMATION

NA : Not applicable
UN No. : Not applicable
ADR/RID : Not applicable
IMO-IMDG code : Not applicable
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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