Page 1 of 6

First issue : January 24, 2011 Publication date : January 25, 2024

Kyowa Chemical Industry Co., Ltd. **SAFETY DATA SHEETS**

KYOWAADTM 200 (Grade: S)

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE SUPPLIER

Product Name : KYOWAADTM 200 (Grade: S)

Manufacture

Company Name : Kyowa Chemical Industry Co., Ltd.

Address : 305 Yashimanishi-machi, Takamatsu, Kagawa, 761-0113, Japan

Telephone Number : +81-(0) 87-841-9156

Emergency telephone number

Kyowa Chemical Industry Co., Ltd.

Telephone No. +81-(0) 87-844-2154 (Quality Assurance Dept.)

Facsimile No. +81-(0) 87-844-2170

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 : Not classified

Out of classified

Self-reactive substance and mixtures : Out of classification

Pyrophoric liquids : Out of classification

Pyrophoric solids : Not elegated.

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

Page 2 of 6

Classification not possible

First issue : January 24, 2011 Publication date : January 25, 2024

Kyowa Chemical Industry Co., Ltd. **SAFETY DATA SHEETS**

KYOWAADTM 200 (Grade: S)

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

Environmental hazards

Aspiration hazard

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

Synonym(s) Aluminum Hydroxide

EC No. 2444927 TSCA Registered

Page 3 of 6

First issue : January 24, 2011 Publication date : January 25, 2024

Kyowa Chemical Industry Co., Ltd. **SAFETY DATA SHEETS**

KYOWAADTM 200 (Grade: S)

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.

Page 4 of 6

First issue : January 24, 2011 Publication date : January 25, 2024

Kyowa Chemical Industry Co., Ltd. **SAFETY DATA SHEETS**

KYOWAADTM 200 (Grade: S)

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. PHYSICALAND CHEMICAL PROPERTIES

Appearance White powder Odour No information Odour threshold No information pН No information 2054°C(Al₂O₃) Melting point 2980°C(Al₂O₃) Initial boiling point No information Flash point Evaporation rate No information No information Flammability 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 mineral acid and alkali.

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.

Page 5 of 6

First issue : January 24, 2011 Publication date : January 25, 2024

Kyowa Chemical Industry Co., Ltd. **SAFETY DATA SHEETS**

KYOWAADTM 200 (Grade: S)

11. TOXICOLOGICAL INFORMATION

Acute toxicity : Aluminum hydroxide

 LD_{50} —over 5000mg/kg oral $rat^{(1)}$

 $\label{local_local_local} LDLo-150 mg/kg \ \ Intraperitoneal \ \ rat^{(2)} \\ TDLo-122 mg/kg/4D \ oral \ \ human \ child^{(3)} \\$

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.

Page 6 of 6

First issue : January 24, 2011 Publication date : January 25, 2024

Kyowa Chemical Industry Co., Ltd. **SAFETY DATA SHEETS**

KYOWAADTM 200 (Grade: S)

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

No specific notes. Follow international regulations.

16. OTHER INFORMATION

No specific notes.

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Kyowa Chemical Industry Co., Ltd. It relates only to the specific material designated herein, and does not relate to use in combination with any other material or in any process. Kyowa Chemical Industry Co., Ltd. assumes no legal responsibility for use of or reliance upon this information.