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March 6, 2008 First issue Publication date January 25, 2024

Kyowa Chemical Industry Co., Ltd. SAFETY DATA SHEETS

KYOWAADTM 500 (Grade: SN)

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE SUPPLIER

Product Name KYOWAADTM 500 (Grade: SN)

Manufacturer

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

Out of classification **Explosives** Flammable gases Out of classification Out of classification Flammable aerosol 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 Out of classification Pyrophoric liquids 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 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 Classification not possible Specific target organ systemic toxicity (single exposure) 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

COMPOSITION/INFORMATION ON INGREDIENTS

CAS registry# Chemical name Wt%

11097-59-9 Magnesium Aluminum Hydroxide Carbonate Hydrate 100

Synonym(s) Hydrotalcite EC No. 2343193 **TSCA** 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), and 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

Flammable properties : Non-flammable

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 closed

after use because of its hygroscopicity.

This material must be stored to avoid contact with oxidizers (such as perchlorates, peroxides, permanganates, chlorates and nitrates) and

chlorine trifluoride since violent reactions occur.

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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 : Dust mask

Exposure Guidelines : Recommendation of Occupational Exposure Limits (OELs) (2007)

Respirable dust - 2 mg/m³, Total - 8 mg/m³

The Japan Society for Occupational Health (JSOH)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : White powder or granules

Odour No information Odour threshold No information Нα No information Melting point No information No information Initial boiling point Flash point No information Evaporation rate No information No information Flammability Upper/lower flammability or explosive limits No information Vapour pressure No information No information Vapour density

Relative density : 2.2

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

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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 : LD_{50} = over 10,000 mg/kg by oral and hypodermic injection (mice) †

over 8,200 mg/kg by intraperitoneal injection (mice)

(† Hydrotalcite; DEPARTMENT OF PHAMACOLOGY TOKYO MEDICAL COLLEGE 25,695(1967))

Skin corrosion/irritation : Prolonged contact may cause skin irritation
Eye irritation : If contacted with eyes, eyes are irritated

Respiratory or skin sensitization : Not available
Mutagenicity : Not available
Carcinogenicity : Not available
STOST single exposure : Not available
STOST repeated exposure : Not available
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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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.

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