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

KISUMATM 5E

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE SUPPLIER

Product name : KISUMATM 5E

Manufacturer

Company Name : Kyowa Chemical Industry Co., Ltd.

Address : 4035 Hayashida-cho, Sakaide, Kagawa, 762-0012, Japan

Telephone number : +81-(0) 877-47-0011

Emergency telephone number

Kyowa Chemical Industry Co., Ltd.

Telephone No. +81-(0) 877-47-4704 (Quality Assurance Dept.)

Facsimile No. +81-(0) 877-47-4724

Relevant identified use of the product : Industrial use

2. HAZARDS IDENTIFICATION

GHS Classification

Physicochemical Hazards

Explosives : Classification not possible

Flammable gases : Not classified
Aerosol : Not classified
Oxidizing gases : Not classified
Gases under pressure : Not classified
Flammable liquids : Not classified
Flammable solids : Not classified

Self-reactive substance and mixtures : Classification not possible

Pyrophoric liquids : Not classified

Pyrophoric solids : Classification not possible Self-heating substance and mixtures : Classification not possible

Substance and mixtures which, in contact with water,

emits flammable gases : Classification not possible

Oxidizing liquids : Not classified
Oxidizing solids : Not classified

Organic peroxides : Classification not possible Corrosive to metals : Classification not possible

Desensitized explosives : Not classified

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Health hazards

Acute toxicity (oral) Classification not possible Acute toxicity (dermal) Classification not possible Acute toxicity (gases) Classification not possible 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 toxicity (single exposure) Classification not possible Specific target organ 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 : Classification not possible

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

Coating agent (trade secret) ≤ 5

Synonym(s) Milk of magnesia; Magnesium hydrate

<u>EC No.</u> 2151703 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), 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 non-flammable.

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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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 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. PHYSICALAND CHEMICAL PROPERTIES

Appearance White powder Odour No information Odour threshold No information рΗ No information Melting point No information Initial boiling point 3600°C(MgO) Flash point No information No information Evaporation rate Flammability No information Upper/lower flammability or explosive limits No information No information Vapour pressure Vapour density No information

Relative density : 2.4

Solubility : Slightly soluble in water. Soluble in mineral acid.

Partition coefficient: n-octanol/water : No information Auto-ignition temperature : No information

Decomposition temperature : 350°C

Viscosity : No information

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10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions
Reactivity : May react with oxidizing substances.

11. TOXICOLOGICAL INFORMATION

Acute toxicity : Magnesium hydroxide

 LD_{50} —over 8500mg/kg oral rat⁽¹⁾ LD_{50} —over 8500mg/kg oral mouse⁽¹⁾

LD₅₀—about 2780mg/kg intraperitoneal rat⁽¹⁾ LD₅₀—about 815mg/kg intraperitoneal mouse⁽¹⁾

TDLo-2747mg/kg human infant (2)

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

Magnesium hydroxide is affirmed as GRAS (generally recognized as safe) in FDA (U.S.A.).

(1) NIIRDN Drugs in Japan(Ethical Drugs), published by YAKUGYO JIHO CO., LTD(page1131,1990)

(2) JTCTDW Journal of Toxicology, Clinical Toxicology, by Marcel Dekker, USA(Vol.29, page215,1991)

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

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13. DISPOSAL CONSIDERATIONS

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

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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