

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

# KISUMA™ 5L

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## 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE SUPPLIER

Product name : KISUMA™ 5L  
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

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## 2. HAZARDS IDENTIFICATION

### GHS Classification

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#### 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

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## 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 d

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Labeling elements : Nothing

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## 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

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>Wt%</u>	<u>CAS registry #</u>
Magnesium Hydroxide	≥ 95	1309-42-8
Organosilicon compounds (Silane coupling agent)	≤ 5	

Synonym(s) Milk of magnesia; Magnesium hydrate

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EC No. 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.

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## 5. FIRE FIGHTING MEASURES

Extinguishing media : This product is non-flammable.  
Protection for firefighters : Firefighters should wear protective equipment.

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## 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.

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## 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/m <sup>3</sup> , Total - 8 mg/m <sup>3</sup> The Japan Society for Occupational Health(JSOH)

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**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	: 3600°C(MgO)
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	: 2.4
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.

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### 11. TOXICOLOGICAL INFORMATION

Acute toxicity : Magnesium hydroxide  
LD<sub>50</sub>—over 8500mg/kg oral rat<sup>(1)</sup>  
LD<sub>50</sub>—over 8500mg/kg oral mouse<sup>(1)</sup>  
LD<sub>50</sub>—about 2780mg/kg intraperitoneal rat<sup>(1)</sup>  
LD<sub>50</sub>—about 815mg/kg intraperitoneal mouse<sup>(1)</sup>  
TDLo—2747mg/kg human infant<sup>(2)</sup>

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)

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### 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.

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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

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## 15. REGULATORY INFORMATION

No specific notes. Follow international regulations.

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## 16. OTHER INFORMATION

No specific notes.

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