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

KISUMATM 5Q-S

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE SUPPLIER

Product Name	:	KISUMA™ 5Q-S
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 (or	cal)	:	Classification not possible
Acute toxicity (de		:	Classification not possible
Acute toxicity (g		:	Classification not possible
Acute toxicity (va		:	Classification not possible
Acute toxicity (du	-	:	Classification not possible
Skin corrosion/ ii		:	Classification not possible
Serious eye dam	age/ eye irritation	:	Classification not possible
Respiratory or sl		:	Classification not possible
Germ cell mutag		:	Classification not possible
Carcinogenicity	-	:	Classification not possible
Reproductive tox	icity	:	Classification not possible
Specific target or	gan toxicity (single exposure)	:	Classification not possible
Specific target or	gan toxicity (repeated exposure)	:	Classification not possible
Aspiration hazar	rd	:	Classification not possible
Environmental haza	rds		
Hazardous to the	e aquatic environment (acute)	:	Classification not possible
Hazardous to the	e aquatic environment (chronic)	:	Classification not possible
Hazardous to the	e Ozone Layer	:	Classification not possible
Labeling elements		:	Nothing
Other hazard			
Inhalation	: May cause symptoms of mu	ucus irritat	tion, cough
Skin contact	: Prolonged contact may caus	se skin irri	itation
Eye contact	: May irritate mucus membr	anes	
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> Magnesium Hydr	roxide	<u>Wt%</u> 100	<u>CAS registry#</u> 1309-42-8
<u>Synonym(s)</u>	Milk of magnesia; M	agnesium hydrate	
EC No.	2151703		
<u>TSCA</u>	Registered		

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4. FIRST AID MEASURES

Inhalation	:	Temore the exposed matricular most an and mate min slow me
		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	nt	
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^3 , Total - 8 mg/m^3
		The Japan Society for Occupational Health(JSOH)

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	:	$350^{\circ}\mathrm{C}$
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	:	$\begin{array}{llllllllllllllllllllllllllllllllllll$
Skin corrosion/irritation Eye irritation Respiratory or skin sensitization Mutagenicity Carcinogenicity Aspiration hazard	:::::::::::::::::::::::::::::::::::::::	Not available If contacted with eyes, eyes are irritated Not available Not available Not available 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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