



# SAFETY DATA SHEET

In accordance with the Global Harmonized System requirements

## Kisuma 5JL Magnesium Hydroxide

### 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

#### 1.1 Product identifier

Trade name:	Kisuma 5JL
Chemical name of the main active ingredient:	Magnesium Hydroxide
INDEX number of the main active ingredient as listed in annex VI of EU-CLP:	no classification
EC number of the main ingredient:	215-170-3
CAS number of the main active ingredient:	1309-42-8
EU-REACH/CLP reference number of the main/active ingredient:	01-2119488756-18-0007

#### 1.2 Relevant identified uses of the mixture and uses advised against

Uses:	Polymer processing, flame retardant additive and PVC stabilizer
Uses advised against:	None identified

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/supplier:	- Kisuma Chemicals B.V. P.O. Box 400 9640 AK Veendam The Netherlands Tel no: +31(0)598 666766 e-mail: REACH@kisuma.com
Contact:	reach@kisuma.com

#### 1.4 Emergency telephone number

Kisuma Chemicals BV:  
Tel: +31(0)598 666766 (09:00 – 17:00, C.E.T)  
National Poisons Information Center, The Netherlands:  
Tel: +31 (0)30 2748888 (24h)

### 2. HAZARD IDENTIFICATION

#### 2.1 Classification of the mixture

The mixture has no classification requirements in accordance with GHS/ Regulation (EC) No 1272/2008 (CLP).

Hazard statements: None

#### 2.2 Label elements

The mixture has no classification/labeling requirements in accordance with GHS/ Regulation (EC) No 1272/2008 (CLP).

Hazard pictogram:

Signal word: -

Hazard statements: -

Precautionary statements: -

#### 2.3 Other hazards

PBT/PvB criteria Not applicable since the main active ingredient is inorganic



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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/mixture:** According to the GHS definition and REACH Regulation the product is a mixture

**Information about components:**

Chemical name:	EC No. Cas No.	GHS/CLP: Pictogram	GHS/CLP: Hazard statements	Concentration
Magnesium Hydroxide	215-170-3 1309-42-8	-	-	>98%
Coating layer based on phosphoric acid ester	-	-	-	<2%

### 4. FIRST-AID MEASURES

#### 4.1 Description of first aid measures

<b>Eye contact:</b>	Immediately wash eyes with plenty of running water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical advice if irritation develops and persists.
<b>Skin contact:</b>	Wash affected skin area with plenty of water and soap thoroughly while removing contaminated clothing and shoes. Seek medical advice if irritation develops and persists.
<b>Ingestion:</b>	Seek medical advice if the victim feels unwell. Wash out mouth with plenty of water and give 2-4 cupfuls of water or milk to drink. Never give anything by mouth to an unconscious person. Induce vomiting.
<b>Inhalation:</b>	Remove the victim from exposure into fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice if cough or other symptoms appear.

#### 4.2 Most important symptoms and effect

Acute effects	None identified
Delayed effects	None identified

**4.3 Indication of any immediate medical attention and special treatment needed** None identified

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

<b>Suitable:</b>	Foam, dry powder, carbon dioxide, water mist.
<b>Not suitable:</b>	Not known

**5.2 Special hazards arising from the mixture** None known

**5.3 Advice for firefighter** In the event of fire, wear a self-contained breathing apparatus and a chemical protective suit.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:  
Wear appropriate personal protective equipment (see section 8) during cleaning. Avoid contact with eyes and skin. Avoid inhalation. Avoid dust formation.

#### 6.2 Environmental precautions

Prevent the material from entering surface water or sanitary sewer system. Do not discharge directly to a water source. If accidental spillage or washings enter drains or watercourses contact local Environment Agency.

#### 6.3 Methods and material for containment and cleaning up

Sweep up into suitable containers for recovery or disposal.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling



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**Technical measures/ Precautions:** Good ventilation (local exhaust) of the working area, safety showers and eye wash station near the workplace. Wear personal protective equipment (see section 8).

**General occupation hygiene:** Do not eat, drink and smoke in work areas. Wash hands after use and remove contaminated clothing and protective equipment before entering eating areas.

### 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures / storage conditions:** Store under dry conditions.

**Incompatible products:** None known

**Packaging material:** Store the product in bags, car silos, container,.

**7.3 Specific end use(s)** None known

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

**Exposure limit values:** No Substance specific (inter)national regulations/recommendations  
Japan.  
Recommendation of Occupational Exposure Limits (OELs)(2007):  
Respirable dust - 2mg/m<sup>3</sup>, Total - 8mg/m<sup>3</sup> (JSOH)  
USA  
Particulates Not Otherwise Regulated (PNOR): 5 mg/m<sup>3</sup> Respirable Dust Level (OSHA)  
Particulates Not Otherwise Specified (PNOS): 3 mg/m<sup>3</sup> Respirable Dust Level (ACGIH)  
Germany  
General Dust Limit (ASG)  
Respirable fraction (A-dust): 3 mg/m<sup>3</sup> (8 hr average)  
Inhalable fraction (E-dust) : 4 mg/m<sup>3</sup> (Yearly average)  
Netherlands  
Indicative values for non-specific dust:  
T<sub>gg</sub> (8h)= 5 mg/m<sup>3</sup> (respirable fraction)  
T<sub>gg</sub> (8h)= 10 mg/m<sup>3</sup> (inhalable fraction)  
Consult your local authorities for general valid (non substance specific) acceptable exposure recommendations/limits.

### Recommended occupational and consumer exposure limit values:

DNEL	Exposure pattern	Derived No Effect Level (DNEL)	
		Workers	General population
	<i>Long-term – dermal, systemic effects</i>	16.67 mg/kg bw/day	10 mg/kg bw/day
	<i>Long-term – inhalation, systemic effects</i>	117.54 mg/m <sup>3</sup>	34.78 mg/m <sup>3</sup>
	<i>Long-term – oral, systemic effects</i>	Not relevant	10 mg/kg bw/day
PNEC			

### 8.2 Exposure controls:

**Appropriate engineering controls:** Keep exposure to a minimum

**Environmental exposure controls:** Wear appropriate personal protective equipment. Avoid contact with eyes and skin. Avoid inhalation. Local exhaust ventilation of the working area.

### Individual protection measures, such as personal protective equipment:

**Respiratory protection:** NIOSH approved.

**Hand protection:** Chemical-resistant gloves.  
Suitable material: Neoprene/nitrile rubber/ rubber  
Breakthrough time: not determined.

**Eye protection:** Safety goggles where splashing is possible.

**Skin and body protection:** Normal overall

**Hygiene measures:** Wash hands and face before breaks and immediately after handling the product. When using do not eat, drink, or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties for the active ingredient in the mixture

**Appearance:** White Powder



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<b>Odour:</b>	No characteristic odour
<b>pH:</b>	~ 10 (saturation concentration in water)
<b>Melting/Boiling temperature:</b>	Decomposition > 320°C (EC A.1 / EC A.2)
<b>Evaporation rate:</b>	Not determined.
<b>Flammability:</b>	Not flammable (EC A.10).
<b>Explosive properties:</b>	Not explosive (EC A.14, based on structure).
<b>Oxidizing properties:</b>	Not oxidizing (EC A.17, based on structure)
<b>Vapour pressure:</b>	The melting point of the test substance is >200°C (473K) and the boiling point of the test substance is >300°C (573K). Based on this, the vapour pressure study was not performed (EC A.4, static technique)
<b>Relative Density (D4(20)):</b>	2.41 (OECD 109 EC A.3; gas comparison pycnometer)
<b>Water solubility:</b>	1.78 mg/l at 20°C (pH 8.3) (EC A.6)
<b>Particle size distribution:</b>	
<b>Partition coefficient n-octanol/water:</b>	Technically not feasible as the substance is inorganic
<b>Decomposition temperature</b>	Decomposition >320°C (EC A.1)
<b>Self heating:</b>	
<b>Auto ignition temperature:</b>	Considered not self-ignitable
<b>Surface tension:</b>	Based on the structure no surface activity is to be expected.
<b>9.2 Other information</b>	None known

### 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity:</b>	Reactive with acids.
<b>10.2 Chemical stability:</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reaction:</b>	None known
<b>10.4 Conditions to avoid:</b>	Temperatures > 350 °C.
<b>10.5 Incompatible materials</b>	Acids; pH < 1.
<b>10.6 Hazardous decomposition products</b>	Hazardous decomposition will not occur.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effect for the main, active ingredient in the mixture

##### ACUTE TOXICITY

<b>Acute oral toxicity:</b>	LD50 (rate): > 2000 mg/kg (EC B.1 tris)
<b>Acute dermal toxicity:</b>	LD50 (rat): >2000 mg/kg (expected value based on acute oral)
<b>Acute inhalation toxicity:</b>	LC50 (rat): >2.1 mg/l (EC B.2)

##### LOCAL

<b>Skin corrosion / Irritation</b>	In Vitro: Not corrosive (EC 440, part B), not irritating (EC 761, part B)
<b>Serious eye damage / eye irritation</b>	Not irritating to the eyes (rabbit) (EC B.5).
<b>Skin sensitization:</b>	No regarded as a skin sensitizer

##### OTHER

<b>Sub-acute toxicity:</b>	28-day oral gavage (rat): NOAEL: 1000 mg/kg bw/day (EC B.7).
<b>Germ cell mutagenicity:</b>	Bacterial reverse mutation test ( <i>S. typhimurium</i> ): not mutagenic (EC B.13/14; Ames test). In vitro Mammalian Chromosome aberration (human lymphocytes): not clastogenic (EC B.10) In vitro Gene mutation (L5178Y/TK+ mouse lymphoma cells) not mutagenic (EC B.17).



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<b>Reproductive toxicity:</b>	Fertility: NOAEL $\geq$ 1000 mg/kg bw/day (OECD 422) Developmental toxicity: NOAEL $\geq$ 1000 mg/kg bw/day (OECD 422)
<b>Carcinogenicity:</b>	No Carcinogenicity evidence from tests of a structural analogue (Magnesium Chloride Hexahydrate). NOAEL > 2810 (males) and 3930 (females) mg/kg bw (as Magnesium Chloride Hexahydrate).
<b>STOT-single exposure:</b>	None known
<b>STOT-repeated exposure:</b>	None known
<b>OTHER INFORMATION</b>	
<b>Immunology:</b>	no info
<b>Neurotoxicity:</b>	no info
<b>Lung absorption:</b>	no info
<b>Chronic toxicity:</b>	no info

## 12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION GIVEN IS FOR THE MAIN, ACTIVE INGREDIENT IN THE MIXTURE

### 12.1 Toxicity

<b>Fish:</b>	LC50 (96h): 306.79 mg/l (EC C.1)
<b>Daphnia magna:</b>	EC50 (48h): 170.6 mg/l (EC C.2)
<b>Algae:</b>	ErC50 (72h): 100 mg/l (EC C.3)
<b>Inhibition of microbial activity:</b>	EC50/LC50 for aquatic micro-organisms: 100 mg/l Magnesium Hydroxide was not toxic to waste water (activated sludge) bacteria at a loading rate of 100 mg/l
<b>Marine copepods:</b>	no info

### 12.2 Persistence and degradability

<b>Biodegradation:</b>	Considered not biodegradable, inorganic substance.
<b>Hydrolysis:</b>	Test could not be performed

### 12.3 Bioaccumulative potential

<b>Octanol-water partition coefficient (Kow):</b>	The partition coefficient can not be calculated.
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### 12.4 Mobility in soil

<b>Adsorption coefficient</b>	Not performed, inorganic substance.
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### 12.5 Results of PBT and vPvB assessment

No PBT and vPvB assessment was conducted since the active ingredient in the mixture is inorganic.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

<b>Waste from residues:</b>	Disposal in accordance with local and national regulations. Do not allow material to contaminate ground water system. Do not contaminate surface water.
<b>Container:</b>	Containers should be cleaned by appropriate method and then re-used or disposed by landfill or incineration as appropriate, in accordance with local and national regulations. Do not remove label until container is thoroughly cleaned.

## 14. TRANSPORT INFORMATION

<b>14.1 UN Number:</b>	Not regulated for transport acc. ADR/DOT/IATA/IMDG
<b>14.2 UN Proper shipping name:</b>	Not regulated for transport acc. ADR/DOT/IATA/IMDG
<b>14.3 Transport hazard classes:</b>	Not regulated for transport acc. ADR/DOT/IATA/IMDG
<b>14.4 Packing group:</b>	Not regulated for transport acc. ADR/DOT/IATA/IMDG
<b>14.5 Environmental hazards:</b>	Not regulated for transport acc. ADR/DOT/IATA/IMDG
<b>14.6 Special precautions for user:</b>	Not regulated for transport acc. ADR/DOT/IATA/IMDG
<b>14.7 Transport in bulk according to</b>	Not regulated for transport acc. ADR/DOT/IATA/IMDG



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Annex II of MARPOL73/78 and the  
IBC code:

### 15. REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture:

The main active ingredient of this mixture is listed on: TSCA, DSL, ENCS, ECL, NZIoC, PICCS, AICS, IECSC, VNECI, INQS, AREC, TSCI, SWISS and EINECS/REACH.  
The coating agent of this mixture is listed on: AICS, IECSC, TSCA, EINECS/ELINCS, KECL, METI/ECL and DSL.  
EU: The coating agent is registered by the supplier of the coating agent and is compliant with REACH. This mixture does not contain any substances that are under REACH listed as SVHC  
USA: CERCLA/SARA/OSHA: no substance specific requirements. No California proposition 65 substance specific requirements. No USA state specific requirements for this mixture.  
Germany TRGS 510 classification: storage class 13; Non-combustible solids

#### 15.2 Chemical safety assessment:

In accordance with REACH article 14, a Chemical Safety assessment has been carried out for this substance.

### 16. OTHER INFORMATION

The information provided in this safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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