



# Safety Data Sheet

FIRE RETARDANT ADDITIVES

## Kemgard® HPSS-UF

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006  
COMMISSION REGULATION (EU) No. 2015/830

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product Name:** Kemgard® HPSS-UF

**Pure substance/mixture** Mixture

Chemical Name	CAS Number	EC No	REACH registration number	(CLP) Regulation (EC 1272/2008)	Weight-%
Magnesium Hydroxide	1309-42-8	215-170-3	01-2119488756-18-0040	Not classified	>25
Zinc Oxide	1314-13-2	215-222-5	01-2119463881-32	H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects	10-30
Zinc Molybdenum	22914-58-5 61583-60-6	245-322-4	01-2120800481-68-0000	H410 - Very toxic to aquatic life with long lasting effects <25% Not classified	>5

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Flame retardant Smoke suppressant

**Uses advised against** None known.

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

**Company:** J.M. Huber Corporation  
3100 Cumberland Boulevard, Suite 600  
Atlanta, GA 30339 USA  
Tel: +1 678 247-7300

**Internet** www.hubermaterials.com

**E-mail** hubermaterials@huber.com

**1.4. Emergency telephone number** CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

**Poison control center phone number** National Anti-Poison Center UK: +44 844 892 0111 (National Poisons Information Service)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

(CLP) Regulation (EC 1272/2008) Hazardous to the aquatic environment - Chronic, category 1  
Hazardous to the aquatic environment - Acute, category 1

**Hazards identification**

**Physical Hazard** Not classified

**Health Hazards** Not classified

**Environmental Hazard** Hazardous to the aquatic environment - Acute, category 1  
Hazardous to the aquatic environment - Chronic, category 1

**2.2. Label elements****Symbols/Pictograms**

**Signal Word** Warning

**Hazard Statements** Very toxic to aquatic life with long lasting effects

**Precautionary Statements**

**Prevention** P202 - Do not handle until all safety precautions have been read and understood  
P273 - Avoid release to the environment

**Response** P391 - Collect spillage  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower]

**Storage** Keep in a dry place  
Store away from incompatible materials

**Disposal** P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

**2.3. Other hazards** No information available.

**SECTION 3: Composition/information on ingredients**

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Chemical Name	CAS Number	EC No	REACH registration number	(CLP) Regulation (EC 1272/2008)	Annex	Weight-%
Magnesium Hydroxide	1309-42-8	215-170-3	01-2119488756-18-0040	Not classified	--	>25
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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General Advice

Do not handle until all safety precautions have been read and understood. Employ good industrial hygiene practice. Wear suitable protective clothing, gloves and eye/face protection. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. When in doubt or if symptoms are observed, get medical advice.

#### Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Skin Contact

Wash with plenty of soap and water.

#### Inhalation

Do not breathe dust. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### Ingestion

Rinse mouth thoroughly with water.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Notes to Physician

Treat symptomatically.

### 4.2. Most important symptoms and effects, both acute and delayed

May cause irritation to mucous membranes and respiratory tract. Contact with dust can cause mechanical irritation or drying of the skin.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treatment should be symptomatic and supportive. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable Extinguishing

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**Media**

Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media**

None known.

**5.2. Special hazards arising from the substance or mixture**

Non-combustible.

**5.3. Advice for firefighters****Special protective  
equipment for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

**Fire-fighting measures**

Water mist may be used to cool closed containers. No special fire protection measures are necessary. Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

**6.1. Personal precautions,  
protective equipment and  
emergency procedures**

Avoid dust formation. Ensure adequate ventilation. Use personal protection recommended in Section 8. Keep unauthorized personnel away.

**For non-emergency personnel**

Keep unauthorized personnel away.

**For emergency responders**

Keep unauthorized personnel away. Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Avoid runoff to waterways and sewers.

**6.3. Methods and material for  
containment and cleaning up**

Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust  
Small Spill: Vacuum or sweep material and place in a disposal container

**6.4. Reference to other sections**

Section 8: Exposure controls and personal protection. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

**7.1. Precautions for safe  
handling**

Avoid exposure - obtain special instructions before use  
Do not handle until all safety precautions have been read and understood.  
Minimize dust generation and accumulation  
Ensure adequate ventilation  
Handle in accordance with good industrial hygiene and safety practice  
Use personal protective equipment as required

**7.2. Conditions for safe storage,  
including any incompatibilities**

Keep container tightly closed and dry  
Store away from incompatible materials

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Magnesium Hydroxide

ACGIH	TLV-TWA: 8-hr : 10 mg/m <sup>3</sup> (total dust) 3 mg/m <sup>3</sup> (respirable fraction)
OSHA	TWA: 15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable
NIOSH	TWA: 15 mg/m <sup>3</sup> (total dust)

##### Zinc Oxide

ACGIH	STEL: 10 mg/m <sup>3</sup> (respirable) TWA: 2 mg/m <sup>3</sup> (respirable)
OSHA	PEL: 15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
NIOSH	Ceiling: 15 mg/m <sup>3</sup> (total dust) STEL: 10 mg/m <sup>3</sup> (fume) TWA: 5 mg/m <sup>3</sup> (total dust)
Austria	MAK: 5 mg/m <sup>3</sup> (fume, respirable dust)
Belgium	STEL: 10 mg/m <sup>3</sup> (fume, respirable fraction) TWA: 5 mg/m <sup>3</sup> (fume); 2 mg/m <sup>3</sup> (respirable fraction)
Bulgaria	STEL: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>
Cyprus	TWA: 5 mg/m <sup>3</sup> (fume)
Czech Republic	Ceiling: 5 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>
Denmark	TLV: 4 mg/m <sup>3</sup>
Estonia	TWA: 5 mg/m <sup>3</sup>
Finland	STEL: 10 mg/m <sup>3</sup> (fume) TWA: 2 mg/m <sup>3</sup> (fume)
France	VME: 5 mg/m <sup>3</sup> (fume); 10 mg/m <sup>3</sup> (dust)
Germany	DFG MAK: TWA: 1 mg/m <sup>3</sup> (respirable)
Greece	STEL: 10 mg/m <sup>3</sup> (fume) 5 mg/m <sup>3</sup> (fume)
Hungary	STEL: 20 mg/m <sup>3</sup> (respirable) TWA: 5 mg/m <sup>3</sup> (respirable)
Iceland	TWA: 4 mg/m <sup>3</sup> (fume)
Ireland	STEL: 10 mg/m <sup>3</sup> (respirable fraction & fume) TWA: 2 mg/m <sup>3</sup> (respirable fraction & fume)
Italy	STEL: 10 mg/m <sup>3</sup> (respirable fraction) TWA: 2 mg/m <sup>3</sup> (respirable fraction)
Latvia	TWA: 0.5 mg/m <sup>3</sup>
Lithuania	TWA: 5 mg/m <sup>3</sup>
Norway	TLV: 5 mg/m <sup>3</sup>
Poland	STEL: 10 mg/m <sup>3</sup> (fume) TWA: 5 mg/m <sup>3</sup> (fume)
Portugal	TWA: 2 mg/m <sup>3</sup> (respirable fraction)
Portugal	STEL 10 mg/m <sup>3</sup> Respirable fraction
Romania	TWA: 5 mg/m <sup>3</sup> (fume)
Romania	STEL 10 mg/m <sup>3</sup> Fume
Russia	Ceiling: 1.5 mg/m <sup>3</sup> (aerosol) TWA 0.5 mg/m <sup>3</sup> (aerosol)
Slovakia	STEL: 1 mg/m <sup>3</sup> (respirable fume) TWA: 1 mg/m <sup>3</sup> (respirable fume)

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Slovenia	TWA: 5 mg/m <sup>3</sup> (respirable fume)
Spain	STEL: 10 mg/m <sup>3</sup> (respirable fraction)
	TWA: 2 mg/m <sup>3</sup> (respirable fraction)
Sweden	TWA: 5 mg/m <sup>3</sup> (total dust)
Switzerland	STEL: 3 mg/m <sup>3</sup> (fume & respirable dust)
	TWA 3 mg/m <sup>3</sup> (fume & respirable dust)
Switzerland	STEL 3 mg/m <sup>3</sup> Fume and respirable dust
<b><u>Zinc Molybdenum</u></b>	
ACGIH	TWA: 10 mg/m <sup>3</sup> dust
	0.5 mg/m <sup>3</sup> Respirable fraction
OSHA	TWA: 5 mg/m <sup>3</sup> (respirable); 10 mg/m <sup>3</sup> (dust)
	PEL: 5 mg/m <sup>3</sup> (respirable)
NIOSH	TWA 8-hr: 10 mg/m <sup>3</sup>
Bulgaria	TWA: 10 mg/m <sup>3</sup>
Czech Republic	Ceiling: 25 mg/m <sup>3</sup>
	TWA: 5 mg/m <sup>3</sup>
Estonia	TWA: 5 mg/m <sup>3</sup> (respirable dust)
	10 mg/m <sup>3</sup> (total dust)
Estonia	STEL: 0.5 mg/m <sup>3</sup>
Finland	TWA: 0,5 mg/m <sup>3</sup>
France	VLE: 10 mg/m <sup>3</sup>
	VME: 5 mg/m <sup>3</sup>
Germany	DFG MAK: TWA: 2 mg/m <sup>3</sup> (inhalable fraction)
	0,1 mg/m <sup>3</sup> (respirable fraction)
Poland	STEL: 10 mg/m <sup>3</sup>
	TWA: 4 mg/m <sup>3</sup>
Poland	STEL 10 mg/m <sup>3</sup>
Slovakia	TWA 2 mg/m <sup>3</sup> Inhalable fraction
	0,1 mg/m <sup>3</sup> Respirable fraction
Slovenia	TWA: 5 mg/m <sup>3</sup> (inhalable fraction)
Spain	STEL 10 mg/m <sup>3</sup> Respirable fraction

**Recommended monitoring procedures** Refer also to national guidance documents for information on currently recommended monitoring procedures

**Biological Limit Values:** No information available

**Derived No Effect Level (DNEL)** No data available

**Predicted No Effect Concentration (PNEC)** No information available

## 8.2. Exposure controls

**Engineering Measures** Do not handle until all safety precautions have been read and understood  
 Ensure adequate ventilation, especially in confined areas  
 Provide a good standard of controlled ventilation (10 to 15 air changes per hour)  
 Use exhaust ventilation to keep airborne concentrations below exposure limits  
 In case of insufficient ventilation, wear suitable respiratory equipment

## Personal protective equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

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<b>Skin and Body Protection</b>	Wear suitable protective clothing.
<b>Hand protection</b>	For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.
<b>Respiratory Protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>Thermal hazards</b>	None known.
<b>Hygiene Measures</b>	Follow general hygiene considerations recognized as common good workplace practices The worker should wash daily at the end of each work shift, and prior to eating, drinking, smoking, etc
<b>Environmental Exposure Controls</b>	Dispose of in accordance with local regulations Do not empty into drains or water courses

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance:**

<b>Physical State</b>	Solid Powder
<b>Color</b>	White
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available
<b>pH:</b>	8.9
<b>Melting Point / Melting Range</b>	No information available
<b>Initial boiling point</b>	No information available
<b>Boiling Point</b>	No information available
<b>Freezing Point</b>	No information available
<b>Evaporation Rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	No information available
<b>Upper flammability limit:</b>	
<b>Lower flammability limit:</b>	
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	Not applicable
<b>Relative Density</b>	3.5
<b>Water Solubility</b>	Slightly soluble
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No information available
<b>Viscosity</b>	No information available.
<b>VOC Content (%)</b>	Not applicable

## SECTION 10: Stability and reactivity

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10.1. Reactivity	Stable under normal conditions
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	None under normal processing
10.4. Conditions to avoid	Dust formation Incompatible materials
10.5. Incompatible materials	Strong oxidizing agents
10.6. Hazardous decomposition products	None known

## SECTION 11: Toxicological information

**General Information** Users are advised to consider national Occupational Exposure Limits or other equivalent values.

### Information on Likely Routes of Exposure

Inhalation	May cause respiratory tract irritation
Skin	No known hazard in contact with skin
Eyes	Dust contact with the eyes can lead to mechanical irritation
Ingestion	Ingestion is not a likely route of exposure
Aspiration hazard	Not an expected route of exposure.
Symptoms related to the physical, chemical and toxicological characteristics	Dust may cause mechanical irritation to eyes.

### 11.1. Information on toxicological effects

#### Magnesium Hydroxide

Oral LD50 8500 mg/kg Rat

#### Zinc Oxide

LD50s and LC50s 5000 mg/kg Oral LD50 Rat

Oral LD50 7950 mg/kg Rat

#### Zinc Molybdenum

Oral LD50 >10000 mg/kg Rat  
IARC Not Listed

**Acute Toxicity** Low hazard for usual industrial or commercial handling



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<b>Respiratory Sensitization</b>	Does not cause sensitization
<b>Serious eye damage/eye irritation</b>	Dust may cause mechanical irritation to eyes
<b>Skin Corrosion/Irritation</b>	Contact with dust can cause mechanical irritation or drying of the skin
<b>Skin Sensitization</b>	Not a skin sensitizer
<b>Germ cell mutagenicity</b>	No data available.
<b>Reproductive Effects</b>	This product does not contain any known or suspected reproductive hazards.
<b>Carcinogenicity</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>Specific target organ toxicity - Single exposure</b>	No data available.
<b>Specific target organ toxicity - Repeated exposure</b>	Not classified.

## SECTION 12: Ecological information

**12.1. Ecotoxicity** Very toxic to aquatic life with long lasting effects.

### Magnesium Hydroxide

**WGK Classification (AwSV)** 5209 WGK: nwg

### Zinc Oxide

**WGK Classification (AwSV)** 2187 WGK: 2

**12.2. Persistence and degradability** No data available.

**12.3. Bioaccumulative potential** No data available.

**Partition coefficient** No data available

**Bioconcentration factor (BCF)** No data available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** This substance does not meet the criteria for classification as PBT or vPvB.

**12.6. Other adverse effects** None known

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

<b>Disposal Methods</b>	Dispose of waste product or used containers according to local regulations. Do not allow to enter into surface water or drains.
<b>Contaminated Packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Waste codes</b>	Waste codes should be assigned by the user based on the application for which the product was used

**Magnesium Hydroxide**

<b>European Waste Catalog</b>	060299
<b>WGK Classification (AwSV)</b>	5209 WGK: nwg

**Zinc Oxide**

<b>WGK Classification (AwSV)</b>	2187 WGK: 2
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**SECTION 14: Transport information****Mode of Transportation (Road, Water, Air, Rail)**

<b>DOT</b>	UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III, Marine Pollutant
<b>ADR</b>	UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III, Marine Pollutant
<b>RID</b>	UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III, Marine Pollutant
<b>ADN</b>	UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III, Marine Pollutant
<b>IATA</b>	UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III, Marine Pollutant
<b>IMDG/IMO</b>	UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III, Marine Pollutant

**14.1. UN number** UN3077**14.2. UN proper shipping name** Environmentally hazardous substance, solid, n.o.s. Zinc oxide**14.3. Transport hazard class(es)** 9**14.4. Packing group** III**14.5. Environmental hazards** Yes Marine Pollutant**EmS:** F-A, S-F

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**14.6. Special precautions for user** Do not handle until all safety precautions have been read and understood.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
Not applicable



**Marine Pollutant**



## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Global Inventories

#### Pure substance/mixture

Mixture

Chemical Name	CAS Number	EC No	REACH registration number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Magnesium Hydroxide	1309-42-8	215-170-3	01-211948 8756-18-0 040	Y	Y	Y	(1)-386 (ENCS) (ISHL)	KE-22716	Y	Y	Y	Y	A
Zinc Oxide	1314-13-2	215-222-5	01-211946 3881-32	Y	Y	Y	ENCS: (1)-561 ISHL: (1)-561	KE-35565	Y	Y	Y	Y	A
Zinc Molybdenum	22914-58-5 61583-60-6	245-322-4	01-212080 0481-68-0 000	Y: CAS 61583-60-6 (generics)	Y: DSL-2291 4-58-5 NDSL: 61583-60-6	Y	(1)-781 (ENCS)(ISHL)	KE-11910	Y: (MO-generics)	Y: CAS 22914-58-5 (generics)	Y	Y	A

**Legend** X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

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**Germany**

Very toxic to aquatic life with long lasting effects

**Magnesium Hydroxide**

WGK Classification (AwSV) 5209 WGK: nwg

**Zinc Oxide**

WGK Classification (AwSV) 2187 WGK: 2

**15.2. Chemical safety assessment**

Chemical Safety Assessments have been carried out for these substances

**SECTION 16: Other information****Reason for Revision**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 & COMMISSION REGULATION (EU) No. 2015/830

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**(CLP) Regulation (EC 1272/2008)** Hazardous to the aquatic environment - Chronic, category 1  
Hazardous to the aquatic environment - Acute, category 1

**Labeling****Symbols/Pictograms****Signal Word**

Warning

**Hazard Statements**

Very toxic to aquatic life with long lasting effects

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### Training Advice

Do not handle until all safety precautions have been read and understood.

### Abbreviations and acronyms

International Agency for Research on Cancer (IARC)  
International Air Transport Association (IATA)  
International Maritime Dangerous Goods (IMDG)  
International Uniform Chemical Information Database (IUCLID)  
Workplace Hazardous Materials Information System (WHMIS) status and classification  
EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification  
DOT (Department of Transportation)  
OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
TWA - Time-Weighted Average  
The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008)  
PPE - Personal Protection Equipment  
NIOSH - National Institute for Occupational Safety and Health  
TDG (Transport of Dangerous Goods) Canada  
CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)  
Reportable Quantity (RQ) (RQ/% in mixture)  
STEL - Short Term Exposure Limit  
TLV® - Threshold Limit Value  
Derived No Effect Level (DNEL)  
SVHC: Substances of Very High Concern for Authorization:  
Land transport (ADR/RID)  
Biochemical oxygen demand (BOD)  
Chemical oxygen demand (COD)  
ICAO (air)  
(IMDG) International Maritime Dangerous Goods  
Positive Pressure Self-Contained Breathing Apparatus (SCBA)  
Predicted No Effect Concentration (PNEC)  
Globally Harmonized System (GHS)

### Disclaimer

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 a 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

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in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**