

## **Safety Data Sheet**

### Kemgard® 605

**GHS (Globally Harmonized System)** 

Issue Date 01/Jan/2024 Revision Number 1.2.1

Print Date 26/Jan/2024

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

1.1. Product identifier

Product Name: Kemgard® 605

Pure substance/mixture Mixture

Aluminum Hydroxide

**CAS Number** 21645-51-2

EU REACH registration 01-2119529246-39

number

Zinc Molybdenum Oxide

**CAS Number** 22914-58-5

61583-60-6

**EU REACH registration** 

number

01-2120800481-68-0000

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

Recommended Use 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.huberadvancedmaterials.com

E-mail hubermaterials@huber.com

1.4. Emergency telephone

number

CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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**GHS Classification** This product is not classified as hazardous according to the UN GHS guideline and

labeling is not required

Hazards identification

**Physical Hazard** Not classified

**Health Hazards** Not classified

Chronic Aquatic Toxicity Category 3 **Environmental Hazard** 

2.2. Label elements

Symbols/Pictograms

Signal Word None

**Hazard Statement** None

**Precautionary Statements** 

Prevention Avoid release to the environment

Employ good industrial hygiene practice Wash hands thoroughly after handling

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

Take precautionary measures against static discharges

Response IF ON SKIN: Wash with plenty of soap and water

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

Storage Keep in a dry place. Store away from incompatible materials. Collect spillage.

**Disposal** Dispose of contents/containers in accordance with local regulations. See Section

13: DISPOSAL CONSIDERATIONS.

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

Pure substance/mixture Mixture

Chemical Name	CAS Number	TSCA: United States	<b>EU REACH registration number</b>		
Aluminum Hydroxide	21645-51-2	Α	01-2119529246-39		
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	А	01-2120800481-68-0000		

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

### **SECTION 4: First aid measures**

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**General Advice** When in doubt or if symptoms are observed, get medical advice. Ensure that

medical personnel are aware of the material(s) involved and take precautions to

protect themselves.

In case of eye contact, remove contact lens and rinse immediately with plenty of **Eye Contact** 

water, also under the eyelids, for at least 15 minutes.

**Skin Contact** Wash with plenty of soap and water.

Do not breathe dust. If breathing is difficult, remove victim to fresh air and keep at Inhalation

rest in a position comfortable for breathing.

Rinse mouth thoroughly with water. Ingestion

Not an expected route of exposure. **Aspiration hazard** 

**Notes to Physician** Treat symptomatically.

4.2. Most important symptoms

and effects, both acute and

delayed

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can

cause mechanical irritation or drying of the skin.

medical attention and special

treatment needed

**4.3.** Indication of any immediate Treat symptomatically. 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

#### Media

Use extinguishing agent suitable for type of surrounding fire. Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO2).

#### **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.

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### **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Keep unauthorized personnel away. Avoid dust formation. Ensure adequate

ventilation. Use personal protection recommended in Section 8.

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, Keep container tightly closed and dry

including any incompatibilities Store away from incompatible materials

### **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

Occupational exposure limits

**Biological Limit Values** 

Recommended monitoring

procedures

Refer also to national guidance documents for information on currently

recommended monitoring procedures

None

8.2. Exposure controls

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**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).

**Skin and Body Protection** Wear suitable protective clothing.

Thermal hazards None known.

**Hygiene Measures** Follow general hygiene considerations recognized as common good workplace

practices

**Environmental Exposure** 

**Controls** 

Dispose of in accordance with local regulations

## **SECTION 9: Physical and chemical properties**

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

Appearance:

Solid Powder **Physical State** White to off-white Color

Odorless Odor

**Odor Threshold** No information available 8.4 (5% water suspension) :Ha

**Melting Point / Melting Range** Not applicable Not applicable Melting point / Freezing point Not applicable **Boiling Point** Not applicable **Freezing Point** Flash Point Non-combustible **Evaporation Rate** Not applicable. Flammability (solid, gas) Not applicable

**Upper flammability limit:** Lower flammability limit:

Not applicable **Vapor Pressure** Not applicable **Vapor Density Vapor Density** Not applicable

**Density**  $2.5 - 2.7 \text{ g/cm}3, 20^{\circ}\text{C}$ 2.6 g/cm3, 20° C **Relative Density Water Solubility** 11.7 mg/l, 25° C Solubility in other solvents No data available Partition coefficient Not applicable **Autoignition Temperature** Not applicable

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No data available **Decomposition Temperature Viscosity** Not applicable. Kinematic viscosity Not applicable **Oxidizing Properties** Not applicable

No information available **Particle Size** 

**VOC Content (%)** Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

Not applicable

# **SECTION 10: Stability and reactivity**

10.1. Reactivity Stable under normal conditions

Stable under normal conditions 10.2. Chemical stability

10.3. Possibility of hazardous

reactions

No specific hazard known

10.4. Conditions to avoid Incompatible materials Dust formation

10.5. Incompatible materials None known

10.6. Hazardous decomposition None known

products

### **SECTION 11: Toxicological information**

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

equivalent values.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Aluminum Hydroxide

Oral LD50 > 2000 mg/kg Rat

Inhalation LC50 Rat > 2.3 mg/l (Al2O3) Aerosol Maximum attainable concentration

**IARC** Not Listed

Zinc Molybdenum Oxide

Oral LD50 >10000 mg/kg Rat

**IARC** Not Listed

Kidney (based on tubular degeneration/regeneration of male Han Wistar rats at **Target Organ Effects** 

125 mg/kg/day)

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Acute Toxicity No data available

**Respiratory Sensitization** Inhalation of dust in high concentration may cause irritation of respiratory system.

Serious eye damage/eye

irritation

Dust may cause mechanical irritation to eyes

**Skin Corrosion/Irritation** Prolonged or repeated contact may dry skin and cause irritation

Skin Sensitization Not a skin sensitizer

Mutagenicity No data available

**Reproductive Effects**This product does not contain any known or suspected reproductive hazards.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed

by OSHA, IARC or NTP.

Target Organ Effects Skin. Eyes. Respiratory system.

Specific target organ toxicity -

Single exposure

No data available.

Specific target organ toxicity -

Repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled.

Kidney.

Mixture versus substance

information

Mixture

Information on Likely Routes of Exposure

**Inhalation** Inhalation of dust may cause irritation of the respiratory system

**Ingestion** Ingestion is not a likely route of exposure

**Skin**Contact with dust can cause mechanical irritation or drying of the skin

Eyes Dust contact with the eyes can lead to mechanical irritation

**Aspiration hazard** Not an expected route of exposure.

#### 11.2. Information on other hazards

11.2.1. Endocrine disrupting This product does not contain any known or suspected endocrine disruptors

properties

**11.2.2. Other information** Not applicable

# **SECTION 12: Ecological information**

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12.1. Toxicity Harmful to aquatic life with long lasting effects

**Aluminum Hydroxide** 

WGK Classification (AwSV) 5220 WGK: nwg

12.2. Persistence and

degradability

No data available.

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

Partition coefficient Not applicable

**Bioconcentration factor** 

(BCF)

No data available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

No data available.

12.6. Endocrine disrupting

properties

This product does not contain any known or suspected endocrine disruptors

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**Disposal Methods** Disposal should be in accordance with applicable regional, national and local laws

and regulations.

Product residue may remain in empty containers. Empty containers should be **Contaminated Packaging** 

taken to an approved waste handling site for recycling or disposal.

Waste codes Waste codes should be assigned by the user based on the application for which

the product was used

**Aluminum Hydroxide** 

**European Waste Catalog** 060299

WGK Classification (AwSV) 5220 WGK: nwg

### **SECTION 14: Transport information**

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TDG -Canada Not regulated Not regulated DOT Not regulated **IATA** IMDG/IMO Not regulated Not regulated **ICAO** 

14.1. UN number None

14.2. UN proper shipping name None

14.3. Transport hazard class(es) None

**Subsidiary Risk** 

14.4. Packing group None

14.5. Environmental hazards No

14.6. Special precautions for Not applicable

user

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

### **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	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)		Philippine s (PICCS)	Taiwan	TSCA: United States
Hydroxide	21645-51- 2			Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	55-1-0259 4	Y	Y	Υ	А
Zinc Molybdenum Oxide	22914-58- 5 61583-60- 6			Y: DSL-2291 4-58 -5 NDSL: 61583-60-		(1)-781 (ENCS)(IS HL)	KE-11910	Y: (MO-gene rics)	Y	Y	Y	Υ	A

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#### REACH No.

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**EU REACH registration number** 01-2119529246-39 **Turkish KKDIK pre-registration** 05-0000193352-73-0000

Zinc Molybdenum Oxide

EU REACH registration number 01-2120800481-68-0000

<u>Germany</u>

Harmful to aquatic life with long lasting effects

**Aluminum Hydroxide** 

WGK Classification (AwSV) 5220 WGK: nwg

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

### **SECTION 16: Other information**

Prepared by Huber Engineered Materials Global Regulatory Affairs

email: regulatory.affairs@huber.com.

GHS Classification This product is not classified as hazardous according to the UN GHS guideline and

labeling is not required

Symbols/Pictograms

Signal Word None

Hazard Statements Harmful to aquatic life with long lasting effects

Hazards identification

Physical Hazard Not classified

Health Hazards Not classified

Environmental Hazard Chronic Aquatic Toxicity Category 3

Abbreviations and acronyms IARC (International Agency for Research on Cancer)

IATA (International Air Transport Association)
IMDG (International Maritime Dangerous Goods)

IUCLID (International Uniform Chemical Information Database)
WHMIS (Workplace Hazardous Materials Information System)

WHMIS (Workplace Hazardous Materials Information System)
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)

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) CLP (The Classification, Labeling and Packaging of Substances and Mixtures 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)

RQ (Reportable Quantity) (RQ/% in mixture)

STEL (Short Term Exposure Limit)

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TLV® (Threshold Limit Value)
DNEL (Derived No Effect Level)
SVHC (Substances of Very High Concern)
Land transport (ADR/RID)
BOD (Biochemical oxygen demand)
COD (Chemical oxygen demand)
ICAO (International Civil Aviation Organization)
IMDG (International Maritime Dangerous Goods)
SCBA (Self-Contained Breathing Apparatus) Positive Pressure
PNEC (Predicted No Effect Concentration)
GHS (Globally Harmonized System)

**Disclaimer** 

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**End of Safety Data Sheet**