



Kemgard® 605

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03
Canadian Workplace Hazardous Material Information System (WHMIS) 2015
Mexico NOM-018-STPS-2000; NOM-018-STPS-2015
GHS (Globally Harmonized System)

Issue Date 01/Jan/2024
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Revision Number 1.2.1
Page 1 of 11

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

1.1. Product identifier

Product Name: Kemgard® 605
Pure substance/mixture Mixture

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

Contact E-Mail www.huberadvancedmaterials.com/contact

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

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Physical Hazards Not classified

Health Hazards Specific target organ toxicity (STOT) - repeated exposure, category 2

Environmental Hazard Not classified

2.2. Label elements

Safety Data Sheet

Kemgard® 605

Issue Date 01/Jan/2024

Print Date 14/Dec/2023

Revision Number 1.2.1

Page 2 of 11

Symbols/Pictograms

**Signal Word**

Warning

Hazard Statements

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary Statements**Prevention**

Do not breathe dust
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

Get medical advice/attention if you feel unwell

Storage

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

Disposal

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

Hazards not otherwise classified None known.
(HNOC)

SECTION 3: Composition/information on ingredients

Pure substance/mixture

Mixture

Chemical Name	CAS Number	Weight-%
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	< 25

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Safety Data Sheet

Kemgard® 605**Issue Date** 01/Jan/2024**Print Date** 14/Dec/2023**Revision Number** 1.2.1**Page** 3 of 11**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

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact

Wash with plenty of soap and water.

Ingestion

Rinse mouth thoroughly with 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.

Aspiration hazard

Not an expected route of exposure.

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.

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 Media**

Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media

None known.

5.2. Special hazards arising from the substance or mixture

None known.

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.

Safety Data Sheet

Kemgard® 605

Issue Date 01/Jan/2024

Print Date 14/Dec/2023

Revision Number 1.2.1

Page 4 of 11

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. Do not breathe dust. Ensure adequate ventilation. Wear appropriate personal protective clothing to prevent skin contact. Handle in accordance with good industrial hygiene and safety practice.

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

Zinc Molybdenum Oxide

OSHA

TWA: 5 mg/m³ (respirable); 10 mg/m³ (dust)

ACGIH

PEL: 5 mg/m³ (respirable)TWA: 10 mg/m³ dust0.5 mg/m³ Respirable fraction

Safety Data Sheet

Kemgard® 605**Issue Date** 01/Jan/2024**Print Date** 14/Dec/2023**Revision Number** 1.2.1**Page** 5 of 11

NIOSH

TWA: 10 mg/m³ 8-hour**PNEC (Predicted No Effect Concentration)** No information available**DNEL (Derived No Effect Level)** No information available**Biological Limit Values** No information available**8.2. Exposure controls****Engineering Measures** Provide a good standard of controlled ventilation (5 to 10 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.**Hand Protection** For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.
Thermal hazards None known. Wear suitable protective clothing.**Hygiene Measures** 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.**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:****Physical State**

Solid Powder

Color

White to off-white

Odor

Odorless

Odor Threshold

No information available

pH:

8.4 (5% water suspension)

Melting Point / Melting Range

Not applicable

Melting point / Freezing point

Not applicable

Boiling Point

Not applicable

Freezing Point

Not applicable

Flash Point

Non-combustible

Evaporation Rate

Not applicable.

Flammability (solid, gas)

Not applicable

Upper flammability limit:

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Safety Data Sheet

Kemgard® 605

Issue Date 01/Jan/2024

Print Date 14/Dec/2023

Revision Number 1.2.1

Page 6 of 11

Lower flammability limit:	--
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Vapor Density	Not applicable
Density	2.5 – 2.7 g/cm ³ , 20°C
Relative Density	2.6 g/cm ³ , 20° C
Water Solubility	11.7 mg/l , 25° C
Solubility in other solvents	No data available
Partition coefficient	Not applicable
Autoignition Temperature	Not applicable
Decomposition Temperature	No data available
Viscosity	Not applicable.
Kinematic viscosity	Not applicable
Oxidizing Properties	Not applicable
Particle Size	No information available
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
10.2. Chemical stability	Stable under normal conditions
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 products	None known

SECTION 11: Toxicological information

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

11.1. Information on toxicological effects

Safety Data Sheet

Kemgard® 605**Issue Date** 01/Jan/2024**Print Date** 14/Dec/2023**Revision Number** 1.2.1**Page** 7 of 11**Zinc Molybdenum Oxide****Oral LD50**

>10000 mg/kg Rat

IARC

Not Listed

Specific target organ toxicity

Kidney (based on tubular degeneration/regeneration of male Han Wistar rats at 125 mg/kg/day). NOAEL – 60 mg/kg Rat; Oral; 90-day.

- Repeated exposure**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 properties**

This product does not contain any known or suspected endocrine disruptors

Safety Data Sheet

Kemgard® 605**Issue Date** 01/Jan/2024**Print Date** 14/Dec/2023**Revision Number** 1.2.1**Page** 8 of 11**11.2.2. Other information** Not applicable

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects**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.**Contaminated Packaging** Product residue may remain in empty containers. Empty containers should be 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

SECTION 14: Transport information

HUBER

Safety Data Sheet

Kemgard® 605

Issue Date 01/Jan/2024

Print Date 14/Dec/2023

Revision Number 1.2.1

Page 9 of 11

Mode of Transportation (Road, Water, Air, Rail)

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

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 user Not applicable

14.7. Maritime transport in bulk according to IMO instruments
Not applicable

SECTION 15: Regulatory information

Global Inventories

Pure substance/mixture Mixture

Chemical Name	CAS Number	EC No	EU REACH registration number	Australia (AIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	245-322-4	01-212080 0481-68-0 000	N	Y	Y	(1)-781 (ENCS)(ISHL)	KE-11910	N	N	N	Y	A

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

US Federal Regulations

EPA

Zinc Molybdenum Oxide
CERCLA

Listed

Safety Data Sheet

Kemgard® 605**Issue Date** 01/Jan/2024**Print Date** 14/Dec/2023**Revision Number** 1.2.1**Page 10 of 11****SARA 313**

Listed

CWA (Clean Water Act)

Not listed

CAA (Clean Air Act)

Not listed

U.S. State Right-to-Know Regulations

Chemical Name	CAS Number	California Proposition 65	Massachusetts	Minnesota	New Jersey	Pennsylvania
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	N	Y	Y	Y	Y

Y: Listed ; N: Not Listed

CANADA**WHMIS**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

SECTION 16: Other information

Prepared byHuber Engineered Materials (HEM) Global Regulatory Affairs
regulatory.affairs@huber.com**Issue Date**

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Reason for Version

OSHA (Occupational Safety and Health Administration of the US Department of Labor).

Training Advice

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

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)
DOT (Department of Transportation)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
TWA (Time-Weighted Average)
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)
TLV® (Threshold Limit Value)
DNEL (Derived No Effect Level)
SVHC (Substances of Very High Concern)
BOD (Biochemical oxygen demand)

HUBER

Safety Data Sheet

Kemgard® 605

Issue Date 01/Jan/2024

Print Date 14/Dec/2023

Revision Number 1.2.1

Page 11 of 11

COD (Chemical oxygen demand)
ICAO (International Civil Aviation Organization)
IMDG (International Maritime Dangerous Goods)
ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)
SCBA (Self-Contained Breathing Apparatus) Positive Pressure
GHS (Globally Harmonized System)
SARA (Superfund Amendments and Reauthorization Act of 1986)
TSCA (Toxic Substances Control Act)

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

End of Safety Data Sheet