



Kemgard® 631

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)

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Revision Number 1.2.1
Page 1 of 10

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

1.1. Product identifier

Product Name: Kemgard® 631
Pure substance/mixture Mixture

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.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

Physical Hazards Not classified
Health Hazards Not classified
Environmental Hazard Not classified

2.2. Label elements

Symbols/Pictograms None

Safety Data Sheet

Kemgard® 631**Issue Date** 01/Jan/2024**Print Date** 13/Dec/2023**Revision Number** 1.2.1**Page** 2 of 10**Signal Word** None**Hazard Statements** None**Precautionary Statements**

Prevention Do not handle until all safety precautions have been read and understood
Employ good industrial hygiene practice
Do not breathe dust
Wear protective gloves/protective clothing/eye protection/face protection

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
IF ON SKIN: Wash with plenty of soap and water

Storage Store away from incompatible materials
Keep in a dry place

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-% |
|-----------------------|-------------|----------|
| Aluminum/Zinc Mixture | Proprietary | 100 |

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

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 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.

Safety Data Sheet

Kemgard® 631**Issue Date** 01/Jan/2024**Print Date** 13/Dec/2023**Revision Number** 1.2.1**Page** 3 of 10

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| Ingestion | Rinse mouth thoroughly with water. |
| Inhalation | Do not breathe dust. IF INHALED: Remove 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 MediaWater 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.

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.

Safety Data Sheet

Kemgard® 631**Issue Date** 01/Jan/2024**Print Date** 13/Dec/2023**Revision Number** 1.2.1**Page** 4 of 10**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

Minimize dust generation and accumulation. Provide local exhaust ventilation. 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

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).

Safety Data Sheet

Kemgard® 631**Issue Date** 01/Jan/2024**Print Date** 13/Dec/2023**Revision Number** 1.2.1**Page** 5 of 10

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| 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 |
| Odor | Odorless |
| Odor Threshold | No information available |
| pH: | No data available |
| Melting point / Freezing point | Not applicable |
| Freezing Point | Not applicable |
| Flash Point | Not determined |
| Evaporation Rate | Not determined. |
| Flammability (solid, gas) | Not applicable |
| Upper flammability limit: | -- |
| Lower flammability limit: | -- |
| Vapor Pressure | Not applicable |
| Vapor Density | Not applicable |
| Density | No data available |
| Relative Density | No data available |
| Water Solubility | Soluble |
| Solubility in other solvents | No data available |
| Partition coefficient | No data available |
| Autoignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Viscosity | No information available. |
| 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

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.2.1

Page 6 of 10

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

| | |
|--|---|
| Acute Toxicity | Based on available data, the classification criteria are not met |
| Chronic Toxicity | Based on available data, the classification criteria are not met. |
| Serious eye damage/eye irritation | Based on available data, the classification criteria are not met |
| Skin Sensitization | Based on available data, the classification criteria are not met |
| Mutagenicity | Based on available data, the classification criteria are not met |
| Reproductive Toxicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Specific target organ toxicity - Single exposure | Based on available data, the classification criteria are not met. |
| Specific target organ toxicity - | Based on available data, the classification criteria are not met. |

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.2.1

Page 7 of 10

Repeated exposure

Information on Likely Routes of Exposure

| | |
|-------------------|---|
| Inhalation | Avoid inhalation of the product |
| Ingestion | Ingestion is not a likely route of exposure |
| Skin | Prolonged or repeated contact may dry skin and cause irritation |
| 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

11.2.2. Other information Not applicable

SECTION 12: Ecological information

12.1. Toxicity Not considered to be harmful to aquatic life

Aluminum/Zinc Mixture

WGK Classification (AwSV) WGK not established

12.2. Persistence and degradability The methods for determining biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential Not likely to bioaccumulate.

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

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.2.1

Page 8 of 10

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 |

Aluminum/Zinc Mixture

WGK Classification (AwSV) WGK not established

SECTION 14: Transport information

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

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

14.2. UN proper shipping name None**14.3. Transport hazard class(es)** None**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

HUBER

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.2.1

Page 9 of 10

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 |
|-----------------------|-------------|------------------------------------|--|-----------------|--------------|---------------|-------|-----------------|--------|-------------|---------------------|--------|---------------------|
| Aluminum/Zinc Mixture | Proprietary | Contact JM Huber for EC No. Status | Contact JM Huber for REACH Regulatory Status | Y | N | Y | Y | Y | N | Y | N | Y | A |

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

US Federal Regulations

EPA

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

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 |
|-----------------------|-------------|---------------------------|---------------|-----------------------------|-----------------------------|-----------------------------|
| Aluminum/Zinc Mixture | Proprietary | N | N | Contact JM Huber for Status | Contact JM Huber for Status | Contact JM Huber for Status |

Y: Listed ; N: Not Listed

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain any Proposition 65 chemicals

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 by

Huber Engineered Materials (HEM) Global Regulatory Affairs
regulatory.affairs@huber.com

HUBER

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024
Print Date 13/Dec/2023

Revision Number 1.2.1
Page 10 of 10

Issue Date 01/Jan/2024
Print Date 13/Dec/2023

Revision Number 1.2.1

Reason for Version New product.

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)
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