



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

Revision Number 1.2.1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product Name:** Kemgard® 631

**Pure substance/mixture** Mixture

#### Aluminum/Zinc Mixture

**CAS Number** Proprietary

**Weight-%** 100

### 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](http://www.huberadvancedmaterials.com)

**E-mail** [hubermaterials@huber.com](mailto:hubermaterials@huber.com)

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

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

**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

**Environmental Hazard** Not classified

# Safety Data Sheet

**Kemgard® 631****Issue Date** 01/Jan/2024**Print Date** 13/Dec/2023**Revision Number** 1.2.1**Page 2 of 9**

## 2.2. Label elements

**Symbols/Pictograms** None**Signal Word** 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** Dispose of contents/containers in accordance with local regulations. See Section 13: DISPOSAL CONSIDERATIONS.

## 2.3. Other hazards

 No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Pure substance/mixture** Mixture

Chemical Name	CAS Number	TSCA: United States	EU REACH registration number	Weight-%
Aluminum/Zinc Mixture	Proprietary	A	Contact JM Huber for REACH Regulatory Status	100

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

## 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.

**Ingestion** Rinse mouth thoroughly with water.

# Safety Data Sheet

**Kemgard® 631****Issue Date** 01/Jan/2024**Print Date** 13/Dec/2023**Revision Number** 1.2.1**Page 3 of 9**

<b>Inhalation</b>	Do not breathe dust. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>Aspiration hazard</b>	Not an expected route of exposure.
<b>Notes to Physician</b>	Treat symptomatically.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Inhalation of dust may cause irritation of the respiratory system. Eye irritation.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

## 5. FIRE-FIGHTING 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 (CO<sub>2</sub>).

**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.

## 6. ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid dust formation. 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 9**

**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.

## 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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Occupational exposure limits

**Biological Limit Values** None

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

### 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)

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

**Hand Protection** Wear suitable gloves.

# Safety Data Sheet

**Kemgard® 631****Issue Date** 01/Jan/2024**Print Date** 13/Dec/2023**Revision Number** 1.2.1**Page 5 of 9**

<b>Respiratory Protection</b>	In case of inadequate ventilation wear respiratory protection.
<b>Thermal hazards</b>	Wear suitable protective clothing.
<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.

## 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>Flash Point</b>	Not determined.
<b>Evaporation Rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper flammability limit:</b>	
<b>Lower flammability limit:</b>	
<b>Relative Density</b>	No data available
<b>Water Solubility</b>	Soluble
<b>Solubility in other solvents</b>	No data available
<b>Partition coefficient</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available

## 10. STABILITY AND REACTIVITY

<b>10.1. Reactivity</b>	Stable under normal conditions
<b>10.2. Chemical stability</b>	Stable under normal conditions
<b>10.3. Possibility of hazardous reactions</b>	No specific hazard known
<b>10.4. Conditions to avoid</b>	Incompatible materials Dust formation
<b>10.5. Incompatible materials</b>	None known
<b>10.6. Hazardous decomposition products</b>	None known

# Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.2.1

Page 6 of 9

## 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	Avoid inhalation of the product
Skin	Prolonged or repeated contact may dry skin and cause irritation
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.

### 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 - Repeated exposure	Based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

# Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.2.1

Page 7 of 9

**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. Other adverse effects** No information available

## 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

## 14. TRANSPORT INFORMATION

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

DOT	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

# Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.2.1

Page 8 of 9

14.1. UN number None

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

## 15. REGULATORY INFORMATION

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

#### Global Inventories

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

## 16. OTHER INFORMATION

Reason for Revision New product.

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

Physical Hazard Not classified

Health Hazards Not classified



# Safety Data Sheet

**Kemgard® 631****Issue Date** 01/Jan/2024**Print Date** 13/Dec/2023**Revision Number** 1.2.1**Page 9 of 9****Environmental Hazard** Not classified**Labeling****Symbols/Pictograms** None**Signal Word** None**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)  
IUCID (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  
PNEC (Predicted No Effect Concentration)  
GHS (Globally Harmonized System)  
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**