



Kemgard® 631

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
COMMISSION REGULATION (EU) No. 2020/878

Issue Date 01/Jan/2024

Print Date 14/Nov/2025

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® 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

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) Not classified.

Hazards identification

Physical Hazard Not classified.

Health Hazards Not classified.

Environmental Hazard Not classified.

2.2. Label elements

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024

Print Date 14/Nov/2025

Revision Number 1.2.1

Page 2 of 11

Symbols/Pictograms None

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 Keep in a dry place
Store away from incompatible materials

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

2.3. Other hazards No information available

SECTION 3: Composition/information on ingredients

3.1. Substance --

3.2. Mixture Mixture

Chemical Name	CAS NUMBER:	EC No	(CLP) Regulation (EC 1272/2008)	Weight-%
Aluminum/Zinc Mixture	PROPRIETARY	Contact JM Huber for EC No. Status	Not classified.	100

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

Safety Data Sheet

Kemgard® 631**Issue Date** 01/Jan/2024**Print Date** 14/Nov/2025**Revision Number** 1.2.1**Page** 3 of 11

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

Skin Contact

Wash with plenty of soap and water.

Inhalation

Do not breathe dust. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Ingestion

Rinse mouth thoroughly with water.

Aspiration hazard

Not an expected route of exposure.

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.

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

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

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.

SECTION 6: Accidental release measures

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024
Print Date 14/Nov/2025

Revision Number 1.2.1
Page 4 of 11

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

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****Recommended monitoring procedures**

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

Biological Limit Values

None

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)

Safety Data Sheet

Kemgard® 631**Issue Date** 01/Jan/2024**Print Date** 14/Nov/2025**Revision Number** 1.2.1**Page** 5 of 11

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.

Respiratory Protection In case of inadequate ventilation wear respiratory protection.

Thermal hazards None known.

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
pH:	10
Melting point / Freezing point	Not applicable
Freezing Point	Not applicable
Flash Point	Not determined
Flammability	Not applicable
Upper flammability limit:	--
Lower flammability limit:	--
Vapor Pressure	Not applicable
Vapor Pressure	Not available
Relative Vapor Density	No data available
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	Solid : Not applicable

Safety Data Sheet

Kemgard® 631**Issue Date** 01/Jan/2024**Print Date** 14/Nov/2025**Revision Number** 1.2.1**Page** 6 of 11

Oxidizing Properties	Not applicable
Particle Characteristics	Median, 1.5 - 3.0 (um)
Specific Gravity/Density	2.4
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.
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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.
Respiratory Sensitization	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.

Safety Data Sheet

Kemgard® 631**Issue Date** 01/Jan/2024**Print Date** 14/Nov/2025**Revision Number** 1.2.1**Page** 7 of 11**Skin Corrosion/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.**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

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024
Print Date 14/Nov/2025

Revision Number 1.2.1
Page 8 of 11

SECTION 12: Ecological information

12.1. Toxicity (CLP) Regulation (EC 1272/2008) Not considered to be harmful to aquatic life
German Ordinance on Facilities Handling Water-Hazardous Substances (AwSV):
General Water Pollutant (Germany).

Aluminum/Zinc Mixture

WGK Classification (AwSV) General Water Pollutant

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 No endocrine disruptors present in concentrations $\geq 0.1\%$

12.7. Other Adverse Effects None known

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. Separate waste so that it can be handled separately by municipal or national waste disposal facilities.

Contaminated Packaging Waste treatment of packaging/containers: Completely emptied packaging may be recycled. Contaminated packaging must be treated the same way as the substance/mixture.

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) General Water Pollutant

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024

Print Date 14/Nov/2025

Revision Number 1.2.1

Page 9 of 11

Disposal Methods

Information relevant for wastewater disposal: Do not allow to enter drains. Avoid release to the environment. Obtain special instructions/safety data sheet.

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

14.1. UN number or ID 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. 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 (AIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Aluminum/Zinc Mixture	PROPRIETARY	Contact JM Huber for EC No. Status	Y	N	Y	Y	Y	N	-	Y	N	Y	A

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

REACH No.

Safety Data Sheet

Kemgard® 631**Issue Date** 01/Jan/2024**Print Date** 14/Nov/2025**Revision Number** 1.2.1**Page 10 of 11****Aluminum/Zinc Mixture****EU REACH registration number** Contact JM Huber for REACH Regulatory Status**Germany****Aluminum/Zinc Mixture****WGK Classification (AwSV)** General Water Pollutant**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were carried out

SECTION 16: Other information

Reason for Revision

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Issue Date

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1.2.1

Prepared byHuber Engineered Materials Global Regulatory Affairs
(Email – HEM.HAMRegulatory@huber.com).**(CLP) Regulation (EC 1272/2008)** Not classified.**Labeling****Symbols/Pictograms**

None

Signal Word

None

Hazard Statements

None

Training Advice

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

Abbreviations and acronymsIARC (International Agency for Research on Cancer)
IUCLID (International Uniform Chemical Information Database)
WHMIS (Workplace Hazardous Materials Information System)
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)
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)

HUBER

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024

Print Date 14/Nov/2025

Revision Number 1.2.1

Page 11 of 11

ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)
IATA (International Air Transport Association)
IMDG (International Maritime Dangerous Goods)
DOT (Department of Transportation)
TDG (Transport of Dangerous Goods) Canada
PNEC (Predicted No Effect Concentration)
SCBA (Self-Contained Breathing Apparatus) Positive Pressure
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