



ADVANCED MATERIALS

SAFETY DATA SHEET

Kemgard® 3001

MoEL's Public Notice No. 2016-19 Standards for Classification and Labeling of Chemical Substances and Safety Data Sheet (SDS)

Issue Date 01/Jan/2024
Print Date 22/Nov/2024

Revision Number 1.2
Page 1 of 8

Section 1: PRODUCT AND COMPANY IDENTIFICATION

A. Product name Kemgard® 3001

Pure substance/mixture Mixture

Aluminum Molybdate Mixture

CAS Number Proprietary
Weight-% 100

B. Recommended use and Limitations on use

Recommended Use Flame retardant

Uses advised against None known

C. Supplier information

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Section 2: HAZARDS IDENTIFICATION

A. Hazard category/Classification

Physical Hazards Not classified.

Health Hazards Not classified.

Environmental Hazards Not classified.

B. Warning label items including precautionary statement

Label Elements

Symbols/Pictograms None

Issue Date 01/Jan/2024

Print Date 22/Nov/2024

Revision Number 1.2

Page 2 of 8

Signal Words None**Hazard Statements** None**Precautionary statement****Prevention** Employ good industrial hygiene practice**Response** Wash skin with soap and water**Storage** Store away from incompatible materials**Disposal** Disposal should be in accordance with applicable regional, national and local laws and regulations**C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)**

None known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**Pure substance/mixture** Mixture

Chemical Name	CAS Number	S. Korea (KECL)	Korean GHS Classification	Weight-%
Aluminum Molybdate Mixture	Proprietary	Y	Not classified.	100

Section 4: FIRST AID MEASURES**A. In case of eye contact** Rinse with water. Get medical attention if irritation develops and persists.**B. In case of skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.**C. In case of inhalation** Move to fresh air. Call a physician if symptoms develop or persist.**D. In case of swallowing** Rinse mouth. Get medical attention if symptoms occur.**E. Note to physician** Treat symptomatically.**Section 5: FIRE FIGHTING MEASURES****A. Suitable (and unsuitable) extinguishing media****Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).**Unsuitable extinguishing** None known

Issue Date 01/Jan/2024

Print Date 22/Nov/2024

Revision Number 1.2

Page 3 of 8

media

B. Specific hazards arising from the chemical (example: hazardous combustion products)**Explosion hazard:** None known**C. Specific methods of fire-fighting**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In the event of fire and/or explosion do not breathe fumes. Move container from fire area if it can be done without risk.

Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

A. Personal precautions, protective equipment and emergency measures Ensure adequate ventilation. Avoid dust formation. See section 8 for more information.

B. Environmental precautions Not considered to be harmful to aquatic life. Avoid discharge into drains, water courses or onto the ground.

C. Methods and materials for containment and cleaning up Vacuum or sweep material and place in a disposal container.

Section 7: HANDLING AND STORAGE**A. Precautions for safe handling**

In case of exposure to environments exceeding the occupational exposure limit, wear a respirator in compliance with national legislation.

B. Conditions for safe storage (including any incompatibilities)

Keep container tightly closed in a dry and well-ventilated place

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**A. Exposure limit values, biological limit values, etc****B. Engineering 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

Issue Date 01/Jan/2024

Print Date 22/Nov/2024

Revision Number 1.2

Page 4 of 8

C. Personal protective equipment

- **Eye protection** If contact is likely, safety glasses with side shields are recommended.
- **Hand protection** For prolonged or repeated skin contact use suitable protective gloves.
- **Body protection** Wear suitable protective clothing.

Hygiene Measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid Powder
Color	White
Odor	Odorless
Odor Threshold	No information available
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Relative Density	No data available
Water Solubility	Soluble
Solubility in other solvents	No information available
Partition coefficient	No data available
Kinematic viscosity	No data available.

Section 10: STABILITY AND REACTIVITY**A. Stability and hazardous reaction potential**

Stability Stable under normal conditions

Hazardous reaction potential None known

B. Conditions to avoid (e.g. static discharge, shock or Vibration, etc) Avoid creating dust. Incompatible materials.

C. Incompatible materials Strong oxidizing agents

D. Hazardous decomposition products No hazardous decomposition products are known.

Section 11: TOXICOLOGICAL INFORMATION

Issue Date 01/Jan/2024

Print Date 22/Nov/2024

Revision Number 1.2

Page 5 of 8

A. Information on likely routes of exposure

- **Mouth** Not an expected route of exposure
- **Eyes** Dust contact with the eyes can lead to mechanical irritation
- **Skin** Prolonged skin contact may cause temporary irritation.

B. Information on health hazards

Acute Toxicity	No information available
Chronic Toxicity	No information available.
Chronic Effects	No information available.
Respiratory Sensitization	No information available
Serious eye damage/eye irritation	No information available
Skin Corrosion/Irritation	No information available
Skin Sensitization	No information available
Mutagenicity	No data available
Germ cell mutagenicity	No data available.
Reproductive Effects	No data available.
Carcinogenicity	Not listed as a carcinogen.
Specific target organ toxicity - Single exposure	No information available.
Specific target organ toxicity - Repeated exposure	No information available.

Section 12: ECOLOGICAL INFORMATION**A. Ecotoxicity**

- | | |
|---|---|
| Hazardous to the aquatic environment, acute hazard | Not classified.
Avoid runoff to waterways and sewers |
| Hazardous to the aquatic environment, long-term hazard | Not classified.
Avoid runoff to waterways and sewers |

B. Persistence/degradability No data available

Issue Date 01/Jan/2024

Print Date 22/Nov/2024

Revision Number 1.2

Page 6 of 8

C. Bioaccumulative potential No data available**D. Mobility in soil** No data available**E. Other adverse effects** No data available

Section 13: DISPOSAL CONSIDERATIONS

A. Method of disposal

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.

B. Disposal considerations (including disposal of contaminated containers or packaging) Disposal should be in accordance with applicable regional, national and local laws and regulations

Section 14: TRANSPORT INFORMATION

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

ADR	Not regulated
RID	Not regulated
ADN	Not regulated

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

A. Method of disposal

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Issue Date 01/Jan/2024

Print Date 22/Nov/2024

Revision Number 1.2

Page 7 of 8

B. Disposal considerations (including disposal of contaminated containers or packaging) Disposal should be in accordance with applicable regional, national and local laws and regulations

Section 15: REGULATORY INFORMATION

National Regulations

Aluminum Molybdate Mixture

CAS Number Proprietary
Weight-% 100
Korean GHS Classification Not classified.

Other domestic and foreign regulations

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 Molybdate Mixture	Proprietary	--	--	N	Y	Y	Y	Y	N	N	N	Y	A

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

Section 16: OTHER INFORMATION

A. Source of Information

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)

Safety Data Sheet

Kemgard® 3001

Issue Date 01/Jan/2024

Print Date 22/Nov/2024

Revision Number 1.2

Page 8 of 8

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)
TSCA (Toxic Substances Control Act)
GHS (Globally Harmonized System)

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C. Number of revisions and Date 1.2
of most recent revision

D. Other

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End of Safety Data Sheet