



Kemgard® 911A

**Japan-JIS Z 7253:2019
Occupational Safety and Health Act
GHS (Globally Harmonized System)**

Issue Date 15/Dec/2023
Print Date 15/Dec/2023

Revision Number 1.3.3
Page 1 of 9

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Kemgard® 911A

Pure substance/mixture Mixture

Calcium Carbonate
CAS Number 471-34-1
Weight-% >1

Calcium Molybdate
CAS Number 7789-82-4
Weight-% >1

Zinc Oxide
CAS Number 1314-13-2
Weight-% >1

Recommended Use Flame retardant Smoke suppressant

Uses advised against None known

Company: J.M. Huber Corporation
3100 Cumberland Boulevard, Suite 600
Atlanta, GA 30339 USA
Tel: +1 678 247-7300

Internet www.huberadvancedmaterials.com

E-mail hubermaterials@huber.com

Emergency Telephone Number CHEMTREC: +1 800 424 9300 or International +1 703 527 3887
+81 03-3560-7316

2. HAZARD IDENTIFICATION

Japan GHS Classification

Physical Hazards Not classified

Health Hazard Not classified

Environmental Hazards Acute Aquatic Toxicity: Category 1
Chronic Aquatic Toxicity: Category 1

GHS label elements
Symbols/Pictograms

Safety Data Sheet

Kemgard® 911A

Issue Date 15/Dec/2023

Print Date 15/Dec/2023

Revision Number 1.3.3

Page 2 of 9

**Signal Word**

Warning

Hazard statements

Toxic to aquatic life with long lasting effects

Precautionary Statements**Prevention**

P273 - Avoid release to the environment
Do not handle until all safety precautions have been read and understood

Response

P391 - Collect spillage
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.

Disposal

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture

Mixture

Chemical Name	CAS Number	Japan GHS Classification	Weight-%
Calcium Carbonate	471-34-1	Not classified	>1
Calcium Molybdate	7789-82-4	Not classified	>1
Zinc Oxide	1314-13-2	Acute Aquatic Toxicity: Category 1 Chronic Aquatic Toxicity, Category 2	>1

4. FIRST AID MEASURES

If inhaled:

Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF ON SKIN:

Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse

IF IN EYES:

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Call a physician if irritation develops and persists

If swallowed:

Rinse mouth thoroughly with water

Safety Data Sheet

Kemgard® 911A

Issue Date 15/Dec/2023

Print Date 15/Dec/2023

Revision Number 1.3.3

Page 3 of 9

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Water spray (fog)
Foam
Dry chemical
Carbon dioxide (CO₂)

Unsuitable Extinguishing Media Do not use water jetstream

Special hazards arising from the substance or mixture Avoid dust formation

Fire-fighting measures In case of fire and/or explosion do not breathe fumes
Water mist may be used to cool closed containers
Keep unauthorized personnel away

Special Protective Equipment for Firefighters Wear self-contained breathing apparatus and protective suit

6. ACCIDENTAL RELEASE MEASURES

Protective Equipment and Precautions for Firefighters Avoid dust formation
Ensure adequate ventilation
Use personal protection recommended in Section 8
Avoid contact with eyes and skin. Wear suitable personal protection equipment.
Keep unauthorized personnel away

Environmental Precautions Keep out of drains, sewers, ditches and waterways
Disposal considerations
See section 13 for more information

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 Minimize use of water during clean-up
Recommended filter type: High efficiency particulate air filter (HEPA filter)

Other Information Not applicable

7. HANDLING AND STORAGE

Handling

Technical measures Provide adequate ventilation as well as local exhaust at critical locations
Ensure adequate ventilation
Use personal protection equipment

Safety Data Sheet

Kemgard® 911A

Issue Date 15/Dec/2023

Print Date 15/Dec/2023

Revision Number 1.3.3

Page 4 of 9

See section 8 for more information

Advice on safe handling Minimize dust generation and accumulation**Conditions for safe storage, including any incompatibilities** Keep containers tightly closed in a cool, well-ventilated place**Hygiene Measures** Wash hands thoroughly after handling**Storage****Packaging compatibilities** Keep/store only in original container

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits Provide adequate ventilation as well as local exhaust at critical locations**Zinc Oxide**

Japan

TWA: 4 mg/m³ (total dust)1 mg/m³ (respirable dust)**Engineering Measures** Ensure adequate ventilation, especially in confined areas**Personal Protective Equipment****Respiratory Protection** In case of inadequate ventilation wear respiratory protection**Hand protection** For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn**Eye Protection** Wear safety glasses with side shields (or goggles)**Skin and Body Protection** Wear suitable protective clothing.
Chemical resistant apron.**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice
Wash thoroughly after handling
Avoid contact with eyes and skin
Do not breathe dust

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid, Powder
Color	White
Odor	Odorless
Odor Threshold	No information available
Melting Point / Melting Range	Not applicable
Boiling Point	Not applicable
Freezing Point	Not applicable
Autoignition Temperature	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Explosive Properties	No data available
Vapor Pressure	Not applicable
Water Solubility	Slightly soluble

Safety Data Sheet

Kemgard® 911A

Issue Date 15/Dec/2023

Print Date 15/Dec/2023

Revision Number 1.3.3

Page 5 of 9

Partition coefficient	No data available
Viscosity	No data available
Specific Gravity	3.0
Oxidizing Properties	No data available
Decomposition Temperature	No data available
Flash Point	Not applicable.
pH:	8.4
Vapor Density	Not applicable
Relative Density	3
Solubility in other solvents	No data available
VOC Content (%)	Not applicable

10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	None known
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	None known

11. TOXICOLOGICAL INFORMATION

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

Inhalation	Avoid inhalation of the product Inhalation of dust may cause irritation of the respiratory system
Skin	Avoid contact with skin Contact with dust can cause mechanical irritation or drying of the skin
Eyes	Avoid contact with 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

<u>Calcium Carbonate</u>	
Oral LD50	6450 mg/kg (rat)

Safety Data Sheet

Kemgard® 911A**Issue Date** 15/Dec/2023**Print Date** 15/Dec/2023**Revision Number** 1.3.3**Page 6 of 9****Zinc Oxide****Oral LD50**

7950 mg/kg Rat

Acute Toxicity

Low hazard for usual industrial or commercial handling

Chronic Toxicity

No data available.

Respiratory Sensitization

Does not cause sensitization

Skin Corrosion/Irritation

Contact with dust can cause mechanical irritation or drying of the skin

Skin Sensitization

Not a skin sensitizer

Reproductive Effects

This product does not contain any known or suspected reproductive hazards.

Reproductive Toxicity

Not classified.

Carcinogenicity

Not listed as a carcinogen. This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Target Organ Effects

Not classified.

**Specific target organ toxicity -
Single exposure**

Not classified.

**Specific target organ toxicity -
Repeated exposure**

Not classified.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects

Persistence and degradability

No data available

Bioaccumulation

No data available.

Mobility in soil

No data available

Hazardous to the ozone layer

No data available

13. DISPOSAL CONSIDERATIONS

Disposal

Dispose of in accordance with federal, state and local regulations

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal

14. TRANSPORT INFORMATION

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

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc

Safety Data Sheet

Kemgard® 911A**Issue Date** 15/Dec/2023**Print Date** 15/Dec/2023**Revision Number** 1.3.3**Page 7 of 9**

RID	oxide) UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide)
ADN	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide)
IATA	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide)
IMDG/IMO	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide)
ICAO	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide)

- 14.1. UN number** UN3077
- 14.2. UN proper shipping name** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide)
- 14.3. Transport hazard class(es)** 9
- 14.4. Packing group** III
- 14.5. Environmental hazards** Yes : Marine Pollutant
- 14.6. Special precautions for user** Do not handle until all safety precautions have been read and understood.
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

**Marine Pollutant**

Safety Data Sheet

Kemgard® 911A

Issue Date 15/Dec/2023

Print Date 15/Dec/2023

Revision Number 1.3.3

Page 8 of 9



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
Calcium Carbonate	471-34-1	207-439-9	Exempt	Y	Y	Y	(1)-122(ENCS)(ISHL)	KE-04487	Y	Y	Y	Y	A
Calcium Molybdate	7789-82-4	232-192-9	01-211949 2895-18	Y	Y	Y	(1)-186 (ENCS)(ISHL)	KE-04581	Y	Y	Y	Y	A
Zinc Oxide	1314-13-2	215-222-5	01-211946 3881-32	Y	Y	Y	ENCS: (1)-561 ISHL: (1)-561	KE-35565	Y	Y	Y	Y	A

Legend-Inventories

KECL - Korean Existing and Evaluated Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

TSCA (Toxic Substances Control Act)

DSL (Domestic Substance List)

NDSL (Non-Domestic Substances List)

Japan - ISHL Notifiable Substances

ENCS - Japan Existing and New Chemical Substances

Occupational Safety and Health Act Zinc oxide (CAS 1314-13-2)

Class I designated chemical substance (substance name, order number and contents) Manganese and its compounds

Water pollutions control zinc Sewerage law Order number 453 14% Calcium molybdate (CAS: 7789-82-4) Zinc and compounds 5 mg/l

16. OTHER INFORMATION

Prepared by

Huber Engineered Materials Global Regulatory Affairs
email: regulatory.affairs@huber.com

Safety Data Sheet

Kemgard® 911A**Issue Date** 15/Dec/2023**Print Date** 15/Dec/2023**Revision Number** 1.3.3**Page 9 of 9****Reason for Revision**

This SDS complies with the requirements of JIS Z 7250:2010 and JIS Z 7252:2009 (Japan)

Bibliography

NITE GHS Classified list

Japan Society for occupational health (2015) recommendation of allowable concentrations, etc.

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value

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

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