



Kemgard® 911A

Prepared in accordance with GB/T 16483-2008, GB/T 24774-2009, GB 13690 – 2009, GB/T 17519–2013
GHS (Globally Harmonized System)

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Kemgard® 911A
Pure substance/mixture	Mixture
<u>Calcium Carbonate</u>	
CAS Number	471-34-1
Weight-%	>1
<u>Calcium Molybdate</u>	
CAS Number	7789-82-4
Weight-%	>1
<u>Zinc Oxide</u>	
CAS Number	1314-13-2
Weight-%	>1
Recommended Use	Flame retardant Smoke suppressant
Uses advised against	None known
Emergency Telephone	CHEMTREC China: 4001-204937 (Mandarin) Local call: +86 532 5879 2008
E-mail	hubermaterials@huber.com
Internet	www.huberadvancedmaterials.com

Section 2: HAZARDS IDENTIFICATION

GHS Classification

Physical Hazard	Not classified
Health Hazard	Not classified
Environmental Hazard	Acute Aquatic Toxicity Category 1 Chronic Aquatic Toxicity Category 1

Label Elements

Symbols/Pictograms

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**Signal Word**

Warning

Hazard Statement

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements**Prevention**P202 - Do not handle until all safety precautions have been read and understood
P273 - Avoid release to the environment**Response**P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower]
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing**Spills and Leaks**

Collect spillage

StorageStore in a dry place
Store away from incompatible materials.**Disposal**

P501 - Dispose of contents/containers in accordance with local regulations

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture

Mixture

Chemical Name	CAS Number	China (IECSC)	China classification	TSCA: United States	EU REACH registration number	Weight-%
Calcium Carbonate	471-34-1	Y	Not classified	A	Exempt	>1
Calcium Molybdate	7789-82-4	Y	Not classified	A	01-2119492895-18	>1
Zinc Oxide	1314-13-2	Y	Acute Aquatic Toxicity Category 1 Chronic Aquatic Toxicity Category 1	A	01-2119463881-32	>1

Section 4: FIRST AID MEASURES

General Advice

In case of doubt or when symptoms persist, seek medical attention.

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Eye Contact	Hold eyelids apart and flush eyes with a steady, gentle stream of water for several minutes.
Skin Contact	IF ON SKIN: Wash with plenty of soap and water
Inhalation	If symptoms occur, remove person to fresh air.
Ingestion	Do not induce vomiting without medical advice
Notes to Physician	Treat symptomatically
Personal Protective Equipment For First Aid Responders	Wear suitable protective clothing IF exposed or concerned: Get medical advice/attention
Expected acute symptoms and delayed symptoms	None known

Section 5: FIRE FIGHTING MEASURES

Flammable Properties	None known
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media:	None known
Specific Hazards Arising from the Chemical	None known
Protective Equipment and Precautions for Firefighters	Wear self-contained breathing apparatus and protective suit

Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation. Avoid dust formation. Avoid inhalation of dust. Refer to Section 8 for personal protective equipment.
Environmental Precautions	Prevent from entering into soil, ditches, sewers and waterways.
Methods for cleaning up	Remove with inert absorbent
Other Information:	None known

Section 7: HANDLING AND STORAGE

Handling	In case of exposure to environments exceeding the occupational exposure limit,
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wear a respirator in compliance with national legislation. Handle in accordance with good industrial hygiene and safety practice.

Storage

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

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Provide adequate ventilation as well as local exhaust at critical locations

Calcium Carbonate

China

8 mg/m³

China

10 mg/m³

ACGIH

3 mg/m³ Respirable10 mg/m³ Total Dust10 mg/m³

OSHA

Calcium Molybdate

China

TWA: 4 mg/m³

ACGIH

TWA: 10 mg/m³ (total dust)**Zinc Oxide**

China

STEL: 5 MG/M3

TWA: 3 mg/m³

ACGIH

STEL: 10 mg/m³ (respirable)TWA: 2 mg/m³ (respirable)

NIOSH

Ceiling: 15 mg/m³ (total dust)STEL: 10 mg/m³ (fume)TWA: 5 mg/m³ (total dust)

OSHA

PEL: 15 mg/m³ (total dust)5 mg/m³ (respirable fraction)**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

Protective gloves

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene Measures

Wash off with soap and water. Handle in accordance with good industrial hygiene and safety practice

Environmental Exposure Controls

Dispose of in accordance with local regulations

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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Information on basic physical and chemical properties

Appearance:

Physical State	Solid Powder
Color	White
Odor	Odorless
Odor Threshold	No information available
pH:	8.4
Melting Point / Melting Range	Not applicable
Freezing Point	Not applicable
Boiling Point	Not applicable
Flash Point	Not applicable.
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper flammability limit:	
Lower flammability limit:	
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	3
Water Solubility	Slightly soluble
Solubility in other solvents	No data available
Partition coefficient	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No data available
Specific Gravity	3.0
VOC Content (%)	Not applicable

Section 10: STABILITY AND REACTIVITY

Stability	Stable
Conditions to avoid:	None known
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	By Fire: Carbon dioxide Carbon monoxide Oxides of Metals in composition
Hazardous Reactions	None under normal processing
Hazardous polymerization:	None under normal processing

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Section 11: TOXICOLOGICAL INFORMATION

General Information

Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Product Information

Information on Likely Routes of Exposure

Eyes	Avoid contact with eyes Dust contact with the eyes can lead to mechanical irritation
Skin	Avoid contact with skin Contact with dust can cause mechanical irritation or drying of the skin
Inhalation	Avoid inhalation of the product Inhalation of dust may cause irritation of the respiratory system
Ingestion	Ingestion is not a likely route of exposure
Aspiration hazard	Not an expected route of exposure.

11.1. Information on toxicological effects

Calcium Carbonate

Oral LD50 6450 mg/kg (rat)

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.

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Specific target organ toxicity - Not classified.
Repeated exposure

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity	Very toxic to aquatic life with long lasting effects.
Persistence/Degradability:	No data available.
Bioaccumulative Potential	This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
Partition coefficient	No data available
Bioconcentration factor (BCF)	No data available.
Mobility in soil	No data available.
Results of PBT and vPvB assessment	This substance does not meet the criteria for classification as PBT or vPvB.
Other Adverse Effects	None known

Section 13: DISPOSAL CONSIDERATIONS

Waste from Residues/Unused Products	Dispose of in accordance with local regulations
Contaminated Packaging:	Dispose of container and unused contents in accordance with federal, state and local requirements

Section 14: TRANSPORT INFORMATION

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

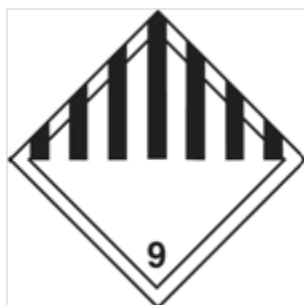
DOT	Not regulated in non-bulk packages (<119 gal) UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide)
ADR	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide)
RID	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide)

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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**

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Section 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
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	01-211949289 5-18	Y	Y	Y	(1)-186 (ENCS)(ISHL)	KE-04581	Y	Y	Y	Y	A
Zinc Oxide	1314-13-2	215-222-5	01-211946388 1-32	Y	Y	Y	ENCS: (1)-561 ISHL: (1)-561	KE-35565	Y	Y	Y	Y	A

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Section 16: OTHER INFORMATION

Prepared by Huber Engineered Materials Global Regulatory Affairs
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Reason for Revision GB/T 16483-2008
GB/T 24774-2009
GB 13690 – 2009
GB/T 17519–2013

GHS Classification

Physical Hazard Not classified

Health Hazard Not classified

Environmental Hazard Acute Aquatic Toxicity Category 1
Chronic Aquatic Toxicity Category 1

Label Elements

Symbols/Pictograms



Signal Word Warning

Hazard Statement H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

Abbreviations and acronyms

IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IMDG (International Maritime Dangerous Goods)
IUCILID (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)

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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)
SCBA (Self-Contained Breathing Apparatus) Positive Pressure
GHS (Globally Harmonized System)
ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)
SARA (Superfund Amendments and Reauthorization Act of 1986)
TSCA (Toxic Substances Control Act)

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End of Safety Data Sheet