



**Kemgard® 911A**

**GHS (Globally Harmonized System)**

**Issue Date** 01/Jan/2024

**Print Date** 13/Dec/2023

**Revision Number** 1.5

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## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

**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

### **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

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

**GHS Classification**

**Hazards identification**

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<b>Physical Hazard</b>	Not classified
<b>Health Hazards</b>	Not classified
<b>Environmental Hazard</b>	Acute Aquatic Toxicity: Category 1 Chronic Aquatic Toxicity: Category 1

## 2.2. Label elements

### Symbols/Pictograms



<b>Signal Word</b>	Warning
<b>Hazard Statements</b>	H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects

### Precautionary Statements

<b>Prevention</b>	P202 - Do not handle until all safety precautions have been read and understood P273 - Avoid release to the environment
<b>Response</b>	P391 - Collect spillage 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
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	P501 - Dispose of contents/containers in accordance with local regulations.

2.3. Other hazards No information available.

## SECTION 3: Composition/information on ingredients

Pure substance/mixture Mixture

Chemical Name	CAS Number	TSCA: United States	EC No	EU REACH registration number	GHS Classification	Weight-%
Calcium Carbonate	471-34-1	A	207-439-9	Exempt.	Not classified	>1
Calcium Molybdate	7789-82-4	A	232-192-9	01-211949	Not classified	>1

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Zinc Oxide	1314-13-2	A	215-222-5	2895-18. 01-211946 3881-32.	Aquatic Acute Category 1; H400 Aquatic Chronic Category 1; H410	>1
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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General Advice</b>	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.
<b>Eye Contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Skin Contact</b>	Wash with plenty of soap and water.
<b>Ingestion</b>	Rinse mouth thoroughly with water.
<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>4.2. Most important symptoms and effects, both acute and delayed</b>	May cause irritation to mucous membranes and respiratory tract. Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Treatment should be symptomatic and supportive. 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**

Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media**

Do not use water jetstream.

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**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. No special fire protection measures are necessary. Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

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

Keep unauthorized personnel away. Avoid dust formation. Ensure adequate ventilation. Use personal protection recommended in Section 8.

**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**

Do not empty into drains or water courses.

**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**

Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Ensure adequate ventilation. Wear appropriate personal protective clothing to prevent skin contact. 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****Calcium Carbonate**

ACGIH

3 mg/m<sup>3</sup> Respirable  
10 mg/m<sup>3</sup> Total Dust  
10 mg/m<sup>3</sup>

OSHA

**Calcium Molybdate**

ACGIH

TWA: 10 mg/m<sup>3</sup> (total dust)**Zinc Oxide**

India

STEL: 10 mg/m<sup>3</sup> (fume)  
TWA: 5 mg/m<sup>3</sup> (fume); 10 mg/m<sup>3</sup> (total dust)

ACGIH

STEL: 10 mg/m<sup>3</sup> (respirable)

OSHA

TWA: 2 mg/m<sup>3</sup> (respirable)  
PEL: 15 mg/m<sup>3</sup> (total dust)  
5 mg/m<sup>3</sup> (respirable fraction)**Biological Limit Values**

None

**Recommended monitoring procedures**

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

**DNEL (Derived No Effect Level)** No information available**PNEC (Predicted No Effect Concentration)** No information available**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.

**Respiratory Protection**

In case of inadequate ventilation wear respiratory protection.

**Thermal hazards**

Wear suitable protective clothing.

**Hygiene Measures**

Follow general hygiene considerations recognized as common good workplace practices.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

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

**SECTION 10: Stability and reactivity**

<b>10.1. Reactivity</b>	None
<b>10.2. Chemical stability</b>	Stable under normal conditions

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- 10.3. Possibility of hazardous reactions** No specific hazard known
- 10.4. Conditions to avoid** Keep away from heat, sparks and flame.
- 10.5. Incompatible materials** Strong oxidizing agents.
- 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.

### 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

#### 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.

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<b>Carcinogenicity</b>	Not listed as a carcinogen. This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>Target Organ Effects</b>	Not classified.
<b>Specific target organ toxicity - Single exposure</b>	Not classified.
<b>Specific target organ toxicity - Repeated exposure</b>	Not classified.

## SECTION 12: Ecological information

**12.1. Ecotoxicity** Very toxic to aquatic life with long lasting effects.

**Calcium Carbonate - 471-34-1**

**WGK Classification (AwSV)** 317 WGK: nwg

**Calcium Molybdate - 7789-82-4**

**WGK Classification (AwSV)** WGK: Not listed

**Zinc Oxide - 1314-13-2**

**WGK Classification (AwSV)** 2187 WGK: 2

**12.2. Persistence and degradability** Readily biodegradable.

**12.3. Bioaccumulative potential** No data available.

**Partition coefficient** No data available.

**Bioconcentration factor (BCF)** Not 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** None known

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Contaminated Packaging** Empty containers should be taken to an approved waste handling site for recycling



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or disposal

**Waste codes**

Waste codes should be assigned by the user based on the application for which the product was used

**Disposal Methods**

Dispose of waste product or used containers according to local regulations

## 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)

**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**

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Marine Pollutant



## 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

## SECTION 16: Other information

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email: regulatory.affairs@huber.com

**Reason for Revision**

GHS (Globally Harmonized System).

**GHS Classification****Labeling****Symbols/Pictograms****Signal Word**

Warning

**Hazard Statements**

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

**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)  
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

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in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**