

# Safety Data Sheet

### Kemgard® 911B

GHS (Globally Harmonized System)

Issue Date 01/Jan/2024 Print Date 13/Dec/2023 Revision Number 1.5

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

### 1.1. Product identifier

Product Name:	Kemgard® 911B	
Pure substance/mixture	Mixture	
Zinc Oxide CAS Number EU REACH registration number Zinc Molybdenum Oxide CAS Number EU REACH registration number	1314-13-2 01-2119463881-32 22914-58-5 61583-60-6 01-2120800481-68-0000	
1.2. Relevant identified uses of t	he 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	
E-mail	hubermaterials@huber.com	
1.4. Emergency telephone number	CHEMTREC: +1 800 424 9300 or International +1 703 527 3887	

# **SECTION 2: Hazards identification**

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GHS Classification	
Hazards identification	
Physical Hazard	Not classified
Health Hazards	Acute toxicity - Inhalation Category 4 Specific target organ toxicity (STOT) - repeated exposure, category 2
Environmental Hazard	Acute Aquatic Toxicity: Category 1 Chronic Aquatic Toxicity: Category 1
2.2. Label elements	

Symbols/Pictograms

Signal Word	Warning
Hazard Statement	H332 - Harmful if inhaled H373 - May cause damage to organs through prolonged or repeated exposure H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects
Precautionary Statements	
Prevention	<ul> <li>P202 - Do not handle until all safety precautions have been read and understood</li> <li>P260 - Do not breathe dust</li> <li>P261 - Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P273 - Avoid release to the environment</li> </ul>
Response	<ul> <li>P317 - Get emergency medical help.</li> <li>P319 - Get medical help if you feel unwell.</li> <li>P391 - Collect spillage</li> <li>P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower]</li> <li>P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing</li> </ul>

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P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Storage P402 - Store in a dry place.

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	TSCA: United States	EU REACH registration number
Zinc Oxide	1314-13-2	A	01-2119463881-32
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	А	01-2120800481-68-0000

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

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General Advice	When in doubt or if symptoms are observed, get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye Contact	In case of eye contact, remove contact lens and rinse immediately with plenty of 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	Based on available data, the classification criteria are not met.
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.

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### **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** Non-combustible.

#### 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**

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**

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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. Minimize dust generation and accumulation Ensure adequate ventilation Handle in accordance with good industrial hygiene and safety practice Use personal protective equipment as required

**7.2. Conditions for safe storage**, Keep container tightly closed and dry **including any incompatibilities** Store away from incompatible materials

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Occupational exposure limits	
Zinc Oxide Thailand	TWA: 5 mg/m³ (fume)
<b>Biological Limit Values</b>	No information available
Recommended monitoring procedures	Refer also to national guidance documents for information on currently recommended monitoring procedures
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.
Thermal hazards	None known.
Hygiene Measures	Follow general hygiene considerations recognized as common good workplace practices
Environmental Exposure Controls	Dispose of in accordance with local regulations Do not empty into drains or water courses

### **SECTION 9: Physical and chemical properties**

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9.1. Information on basic physical and chemical properties Appearance: Solid Powder **Physical State** Color White Odor Odorless **Odor Threshold** No information available pH: 6.5 5% Water suspension Melting Point / Melting Range No information available Not applicable Melting point / Freezing point No information available Initial boiling point No information available **Boiling Point Freezing Point** No information available **Flash Point** Not applicable Product/Substance is inorganic Not applicable. **Evaporation Rate** Not applicable Flammability (solid, gas) Flammability (solid, gas) Non-combustible Not applicable Upper flammability limit: Lower flammability limit: Not applicable Vapor Pressure No data available Vapor Density Not applicable Vapor Density No data available Density No data available **Relative Density** 5.1 Water Solubility Slightly soluble No information available Solubility in other solvents No data available Partition coefficient Autoignition Temperature No data available No information available **Decomposition Temperature** Viscosity No information available. **Kinematic viscosity** Not applicable **Oxidizing Properties** Not applicable No information available **Particle Size** 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 None under normal processing

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reactions

**10.4. Conditions to avoid** Dust formation Incompatible materials

**10.5. Incompatible materials** Strong oxidizing agents

10.6. Hazardous decomposition None known products

# **SECTION 11: Toxicological information**

General Information	Users are advised to consider national Occupational Exposure Limits or other equivalent values.
11.1. Information on hazard clas	ses as defined in Regulation (EC) No 1272/2008
Zinc Oxide LD50s and LC50s	5000 mg/kg Oral LD50 Rat
Oral LD50 <u>Zinc Molybdenum Oxide</u> Oral LD50 IARC Specific target organ toxicity - Repeated exposure	7950 mg/kg Rat >10000 mg/kg Rat Not Listed Kidney (based on tubular degeneration/regeneration of male Han Wistar rats at 125 mg/kg/day). NOAEL – 60 mg/kg Rat; Oral; 90-day.
Acute Toxicity	Low hazard for usual industrial or commercial handling
Respiratory Sensitization	Does not cause sensitization
Serious eye damage/eye irritation	Dust may cause mechanical irritation to eyes
Skin Corrosion/Irritation	Contact with dust can cause mechanical irritation or drying of the skin
Skin Sensitization	Not a skin sensitizer
Germ cell mutagenicity	No data available.
Reproductive Effects	This product does not contain any known or suspected reproductive hazards.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Target Organ Effects	Skin. Eyes. Respiratory system.
Specific target organ toxicity - Single exposure	No data available.

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Specific target organ toxicity - Repeated exposure	May cause damage to organs through prolonged or repeated exposure if inhaled. Kidney.
Information on Likely Routes of	Exposure
Inhalation	May cause respiratory tract irritation
Ingestion	Ingestion is not a likely route of exposure
Skin	No known hazard in contact with skin
Eyes	Dust contact with the eyes can lead to mechanical irritation
Aspiration hazard	Not an expected route of exposure.
Symptoms related to the physical, chemical and toxicological characteristics	Dust may cause mechanical irritation to eyes.

### 11.2. Information on other hazards

**11.2.1. Endocrine disrupting** This product does not contain any known or suspected endocrine disruptors **properties** 

**11.2.2.** Other information Not applicable

### **SECTION 12: Ecological information**

12.1. Toxicity	Very toxic to aquatic life with long lasting effects
Zinc Oxide WGK Classification (AwSV)	2187 WGK: 2
12.2. Persistence and degradability	No data available.
12.3. Bioaccumulative potential	No data available.
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.

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12.6. Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Disposal Methods	Dispose of waste product or used containers according to local regulations. Do not allow to enter into surface water or drains.
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Waste codes	Waste codes should be assigned by the user based on the application for which the product was used
<u>Zinc Oxide</u> WGK Classification (AwSV)	2187 WGK: 2

### **SECTION 14: Transport information**

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

TDG -Canada	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, Zinc Molybdate)
DOT	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, Zinc Molybdate), , Not regulated in non-bulk packages (<119 gal)
ADR	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, Zinc Molybdate)
ADN	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, Zinc Molybdate)
ΙΑΤΑ	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, Zinc Molybdate)
IMDG/IMO	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, Zinc Molybdate)
ICAO	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, Zinc Molybdate)

#### **14.1. UN number** UN3077

14.2. UN proper shipping name	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc
	Oxide, Zinc Molybdate)

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### 14.3. Transport hazard class(es) 9

Subsidiary Risk

14.4. Packing group

**14.5. Environmental hazards** Marine Pollutant

**EmS:** F-A, S-F

**14.6. Special precautions for** Do not handle until all safety precautions have been read and understood. **user** 

### 14.7. Maritime transport in bulk according to IMO instruments

-



**Marine Pollutant** 



### **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 (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)		Philippine s (PICCS)	Taiwan	TSCA: United States
Zinc Oxide	1314-13-2	215-222-5	Y	Y	Y	ENCS:	KE-35565	Y	55-1-0137	Y	Y	Y	А

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						(1)-561 ISHL: (1)-561			7				
Zinc Molybdenum	22914-58-	245-322-4	N	Y	Y		KE-11910	N	Y	Ν	Ν	Y	A
Oxide	5					(ENCS)(IS							
	61583-60-					HL)							
	6												

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

### REACH No.

#### Zinc Oxide

EU REACH registration number	01-2119463881-32
Turkish KKDIK pre-registration	05-0000192715-32-0000
Zinc Molybdenum Oxide	
EU REACH registration number	01-2120800481-68-0000
Turkish KKDIK pre-registration	05-0000192714-03-0000

#### Germany

Very toxic to aquatic life with long lasting effects Zinc Oxide WGK Classification (AwSV) 2187 WGK: 2

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were carried out

### **SECTION 16: Other information**

#### Prepared by

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

#### **GHS Classification**

Symbols/Pictograms



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Hazard Statements	H332 - Harmful if inhaled H373 - May cause damage to organs through prolonged or repeated exposure H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects
Hazards identification	
Physical Hazard	Not classified
Health Hazards	Acute toxicity - Inhalation Category 4 Specific target organ toxicity (STOT) - repeated exposure, category 2
Environmental Hazard	Acute Aquatic Toxicity: Category 1 Chronic Aquatic Toxicity: Category 1
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 Database) WHMIS (Workplace Hazardous Materials Information System) EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification DOT (Department of Transportation) OSHA (Occupational Safety and Health Administration of the US Department of Labor) TWA (Time-Weighted Average) Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) 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) Land transport (ADR/RID) BOD (Biochemical oxygen demand) CCD (Chemical oxygen demand) ICAO (International Maritime Dangerous Goods) SCBA (Self-Contained Breathing Apparatus) Positive Pressure PNEC (Predicted No Effect Concentration) GHS (Globally Harmonized System)
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