

### Kemgard® 911B

GHS (Globally Harmonized System) Measures on the Management of Toxic Chemical Substances Labelling and Safety Data Sheets. December 11, 2014.

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### Section 1: Identification: Product identifier and chemical identity

- 1.1. Product identifier
- Product Name:Kemgard® 911BPure substance/mixtureMixtureZinc OxideZinc OxideCAS Number1314-13-2Weight-%>25Zinc Molybdenum OxideZ2914-58-5CAS Number22914-58-5G1583-60-6>25
- 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
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**

2.1. Classification of the substance or mixture

Pure substance/mixture Mixture

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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 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
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> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several</li> </ul>

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	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.
2.3. Other hazards	No information available.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixture

Mixture

Chemical Name	CAS Number	Taiwan	Taiwan - GHS	EU REACH registration number	Weight-%
Zinc Oxide	1314-13-2	Y	Aquatic Acute 1 Aquatic Chronic 1	01-2119463881-32	>25
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	Y	Acute Tox. 4, H332 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	01-2120800481-68-00 00	>25

# **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.

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### **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. Minimize dust generation and accumulation Ensure adequate ventilation Handle in accordance with good industrial hygiene and safety practice Use personal protective equipment as required
	Keep container tightly closed and dry Store away from incompatible materials

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

#### **Engineering Controls:**

Exposure Limit Values Zinc Oxide	
Taiwan	TWA: 5 mg/m <sup>3</sup> (fume)
ACGIH	STEL: 10 mg/m³ (respirable) TWA: 2 mg/m³ (respirable)
OSHA	PEL: 15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
Zinc Molybdenum Oxide	
Taiwan	OEL: 5 mg/m <sup>3</sup>
ACGIH	TWA: 10 mg/m³ dust 0.5 mg/m³ Respirable fraction
OSHA	TWA: 5 mg/m <sup>3</sup> (respirable); 10 mg/m <sup>3</sup> (dust) PEL: 5 mg/m <sup>3</sup> (respirable)
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 Protection	Avoid contact with eyes Wear safety glasses with side shields (or goggles)
Skin and Body Protection	Wear protective gloves/clothing. Boots.
Hand Protection	Impervious gloves
Respiratory Protection:	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice
Environmental Exposure	Toxic to aquatic life with long lasting effects

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

9.1. Information on basic physical and chemical properties		
Appearance: Physical State	Solid Powder	
Color	White	
Odor	Odorless	
Odor Threshold	No information available	
pH:	6.5 5% Water suspension	
Melting Point / Melting Range	No information available	
Melting point / Freezing point	Not applicable	
Initial boiling point	No information available	
Boiling Point	No information available	
Freezing Point	No information available	
Flash Point	Not applicable Product/Substance is inorganic	
Evaporation Rate	Not applicable.	
Flammability (solid, gas)	Not applicable	
Flammability (solid, gas)	Non-combustible	
Upper flammability limit:	Not applicable	
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	
Solubility in other solvents	No information available	
Partition coefficient	No data available	
Autoignition Temperature	No data available	
Decomposition Temperature	No information available	
Viscosity	No information available.	
Kinematic viscosity	Not applicable	
Oxidizing Properties	Not applicable	
Particle Size	No information available	
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**

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10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	None under normal processing
10.4. Conditions to avoid	Dust formation Incompatible materials
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.
11.1. Information on hazard class	sses as defined in Regulation (EC) No 1272/2008
Zinc Oxide LD50s and LC50s	5000 mg/kg Oral LD50 Rat
Oral LD50 Zing Molybdonum Oxida	7950 mg/kg Rat
Zinc Molybdenum Oxide Oral LD50 IARC Target Organ Effects	>10000 mg/kg Rat Not Listed Kidney (based on tubular degeneration/regeneration of male Han Wistar rats at 125 mg/kg/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.

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Target Organ Effects	Skin. Eyes. Respiratory system.
Specific target organ toxicity - Single exposure	No data available.
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
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degradability

Zinc Oxide WGK Classification (AwSV) 2187 WGK: 2

- **12.2. Persistence and** No data available.
- **12.3. Bioaccumulative potential** No data available.
  - Partition coefficient No data available

Bioconcentration factor	No data available.
(BCF)	

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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. 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
Zinc Oxide WGK Classification (AwSV)	2187 WGK: 2

# **SECTION 14: Transport information**

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

DOTOxide, Zinc Molybdate)DOTUN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, Zinc Molybdate), , Not regulated in non-bulk packages (<119 gal)
Oxide, Zinc Molybdate), , Not regulated in non-bulk packages (<119 gal)
ADR, Not regulated in non-bulk packages (<119 gal)
ADRUN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, Zinc Molybdate)ADNUN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, Zinc Molybdate)IATAUN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc
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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)

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14.1. UN number	UN3077
14.2. UN proper shipping name	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, Zinc Molybdate)
14.3. Transport hazard class(es)	9
Subsidiary Risk	-
14.4. Packing group	III
14.5. Environmental hazards	Marine Pollutant
EmS:	F-A, S-F
14.6. Special precautions for user	Do not handle until all safety precautions have been read and understood.

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





# **SECTION 15: Regulatory information**

#### **Global Inventories**

Chemical Name	CAS	EC No	EU	Australia	Canada	China	Japan	S. Korea	Mexico	New	Philippine	Taiwan	TSCA:
	Number		REACH	(AIIC)	(DSL)	(IECSC)		(KECL)		Zealand	s (PICCS)		United
			registrati										States

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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
Zinc Molybdenum Oxide	22914-58- 5 61583-60- 6		01-212080 0481-68-0 000		Y: DSL-2291 4-58 -5 NDSL: 61583-60- 6	Y	(1)-781 (ENCS)(IS HL)	KE-11910	Y: (MO-gene rics)	Y	Y	Y	A

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

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

Prepared by

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

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**Issue Date** 

01/Jan/2024

**GHS Classification** 

Symbols/Pictograms



Signal Word

**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

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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 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) COD (Chemical oxygen demand) ICAO (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 Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning

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#### End of Safety Data Sheet