



Kemgard® 911B

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® 911B

Pure substance/mixture Mixture

Zinc Oxide

CAS Number 1314-13-2

Weight-% >25

Zinc Molybdenum Oxide

CAS Number 22914-58-5

61583-60-6

Weight-% >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

GHS Classification

Hazards identification

Physical Hazard Not classified

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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**

P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment

Response

P317 - Get emergency medical help.
P319 - Get medical help if you feel unwell.
P391 - Collect spillage
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower]
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
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.

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Disposal

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-%
Zinc Oxide	1314-13-2	A	215-222-5	01-211946 3881-32.	Aquatic Acute Category 1; H400 Aquatic Chronic Category 1; H410	>25
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	A	245-322-4	01-212080 0481-68-0 000.	Acute Tox. 4, H332 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	>25

SECTION 4: First aid measures

4.1. Description of first aid measures**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.

Ingestion

Rinse mouth thoroughly with water.

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation of dust may cause irritation of the respiratory system. Eye irritation.

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

Do not use water jetstream.

Flammable Properties

None known.

5.2. Special hazards arising from the substance or mixture

Avoid dust formation. Do not breathe dust.

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Fire-fighting measures

Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep unauthorized personnel away. 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

Avoid runoff to waterways and sewers. Dispose of in accordance with federal, state and local regulations.

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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Minimize dust generation and accumulation. Ensure adequate ventilation. Use personal protective equipment as required. 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. See section 10.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters**Occupational exposure limits****Zinc Oxide****India**STEL: 10 mg/m³ (fume)TWA: 5 mg/m³ (fume); 10 mg/m³ (total dust)**ACGIH**STEL: 10 mg/m³ (respirable)TWA: 2 mg/m³ (respirable)**OSHA**PEL: 15 mg/m³ (total dust)5 mg/m³ (respirable fraction)**Zinc Molybdenum Oxide****India**

TWA: Not established

ACGIHTWA: 10 mg/m³ dust0.5 mg/m³ Respirable fraction**OSHA**TWA: 5 mg/m³ (respirable); 10 mg/m³ (dust)PEL: 5 mg/m³ (respirable)**Biological Limit Values**

No information available

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

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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.
Environmental Exposure Controls	Dispose of in accordance with local regulations. Do not empty into drains or water courses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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
Boiling Point	No information available
Freezing Point	No information available
Flash Point	Not applicable Product/Substance is inorganic
Evaporation Rate	Not applicable
Upper	Not applicable
Lower	Not applicable
Vapor Pressure	No data available
Vapor Density	No data available
Solubility in other solvents	No information available
Water Solubility	Slightly soluble
Partition coefficient	No data available
Autoignition Temperature	No data available

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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 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.

Information on Likely Routes of Exposure

Inhalation May cause respiratory tract irritation**Skin** No known hazard in contact with skin**Eyes** Dust contact with the eyes can lead to mechanical irritation**Ingestion** Ingestion is not a likely route of exposure**Symptoms related to the physical, chemical and toxicological characteristics** Dust may cause mechanical irritation to eyes.

11.1. Information on toxicological effects

Zinc Oxide

Oral LD50 7950 mg/kg Rat

Zinc Molybdenum Oxide

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>10000 mg/kg Rat

IARC

Not Listed

Specific target organ toxicity**- Repeated exposure**

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.

Specific target organ toxicity - Repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled. Kidney.

SECTION 12: Ecological information

12.1. Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Zinc Oxide - 1314-13-2**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)

Not available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

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**Disposal Methods** Dispose of waste product or used containers according to local regulations Do not allow to enter into surface water or drains

SECTION 14: Transport information

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

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)**IATA** 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)**14.3. Transport hazard class(es)** 9

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Subsidiary Risk

-

14.4. Packing group

III

14.5. Environmental hazards

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

Not applicable

**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
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
Zinc Molybdenum	22914-58-5	245-322-4	01-212080048 1-68-0000	N	Y	Y	(1)-781 (ENCS)(IS	KE-11910	N	N	N	Y	A

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Oxide	61583-60-6						HL)						
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X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

SECTION 16: Other information

Prepared byHuber Engineered Materials Global Regulatory Affairs
email: regulatory.affairs@huber.com**Reason for Revision**

GHS (Globally Harmonized System).

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

Warning

Hazard StatementsH332 - 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**Training Advice**

Do not handle until all safety precautions have been read and understood.

Abbreviations and acronymsIARC (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

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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