

Safety Data Sheet

Malaysia CLASS Regulation, 2013 Globally Harmonized System (GHS)

Issue Date: 28/Feb/2021 Revision Number: 1.4.1

Print Date: 28/Feb/2021

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name: Kemgard® 911B-LSA

Pure substance/mixture Mixture

Zinc Oxide

CAS Number 1314-13-2 **Weight-%** >25

Zinc Molybdenum

CAS Number 22914-58-5

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.hubermaterials.com

E-mail hubermaterials@huber.com

1.4. Emergency telephone

number

CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

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 Not classified

Environmental Hazard Hazardous to the aquatic environment - Acute, category 1

Hazardous to the aquatic environment - Chronic, category 1

2.2. Label elements

Symbols/Pictograms



Signal Word Warning

Hazard Statements Very toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P280 - Wear protective gloves/protective clothing and eye/face protection

P260 - Do not breathe dust

P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment Employ good industrial hygiene practice

Response P391 - Collect spillage

P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water [or shower]

Storage Store away from incompatible materials.

Disposal P501 - Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture Mixture

Chemical Name	CAS Number	TSCA: United States	REACH registration number	Weight-%
Zinc Oxide	1314-13-2	Α	01-2119463881-32	>25
Zinc Molybdenum	22914-58-5	Α	01-2120800481-68-0000	>25

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

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.

Ingestion Rinse mouth thoroughly with water.

Inhalation Do not breathe dust. If breathing is difficult, remove victim to fresh air and keep at

rest in a position comfortable for breathing.

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

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

4.3. Indication of any immediate medical attention and special

treatment needed

4.3. Indication of any immediate Treat symptomatically. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of

contamination.

5. FIRE-FIGHTING 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

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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.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid dust formation. 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.

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.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Zinc Oxide

Malaysia TWA 3 mg/m³ Fume and respirable

dust

NIOSH Ceiling: 15 mg/m³ (total dust)

STEL: 10 mg/m³(fume)

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ACGIH

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

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 Malaysia
 TWA: 5 mg/m³

 NIOSH
 8-hr TWA: 10 mg/m³

 ACGIH
 TWA: 10 mg/m³ dust

0.5 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

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 Handle in accordance with good industrial hygiene and safety practice. Remove

and wash contaminated clothing before re-use.

Environmental Exposure

Controls

Dispose of in accordance with local regulations. Do not empty into drains or water

courses.

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
pH:
No information available
6.5 5% Water suspension
No information available
No information available
No information available

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No information available **Freezing Point Boiling Point** No information available

Not applicable. Product/Substance is inorganic. Flash Point:

Evaporation Rate Not applicable. Flammability (solid, gas) Non-combustible Not applicable **Upper flammability limit:** Not applicable Lower flammability limit: No data available **Vapor Pressure Vapor Density** No data available

Relative Density 5.1

Water Solubility Slightly soluble

No information available Solubility in other solvents

Partition coefficient No data available **Autoignition Temperature** No data available

Decomposition Temperature No information available No information available. **Viscosity**

VOC Content (%) Not applicable

10. STABILITY AND REACTIVITY

10.1. Reactivity Stable under normal conditions

Stable under normal conditions 10.2. Chemical stability

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 None known

products

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

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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

Oral LD50 >10000 mg/kg Rat

Specific target organ toxicity Kidney (based on tubular degeneration/regeneration of male Han Wistar rats at **Repeated exposure** 125 mg/kg/day). NOAEL – 60 mg/kg Rat; Oral; 90-day. Based on available data,

the classification criteria are not met

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/IrritationContact with dust can cause mechanical irritation or drying of the skin

Skin Sensitization Not a skin sensitizer

Germ cell mutagenicity No data available.

Reproductive EffectsThis 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.

Specific target organ toxicity -

Single exposure

No data available.

Specific target organ toxicity -

Repeated exposure

Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

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

Zinc Oxide

WGK Classification (AwSV) 2187 WGK: 2

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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.

12.6. Other adverse effects None known

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal MethodsDispose 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

14. TRANSPORT INFORMATION

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

DOT UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III,

Marine Pollutant

ADR UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III,

Marine Pollutant

ADN UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III,

Marine Pollutant

IATA UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III,

Marine Pollutant

IMDG/IMO UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III,

Marine Pollutant

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14.1. UN number UN3077

14.2. UN proper shipping name Environmentally hazardous substance, solid, n.o.s. Zinc oxide Marine Pollutant

14.3. Transport hazard class(es) 9

Subsidiary Risk -

14.4. Packing group

14.5. Environmental hazards Marine Pollutant Yes

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. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable



Marine Pollutant



15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Global Inventories

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Chemical Name	CAS Number	EC No	REACH registration number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippin es (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	Υ	А
Zinc Molybdenum	22914-58- 5	245-322-4	01-212080048 1-68-0000	N	Y	Y	(1)-781 (ENCS)(IS HL)	KE-11910	N	N	N	Υ	А

Legend

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

16. OTHER INFORMATION

Prepared by Huber Engineered Materials Global Regulatory Affairs

email: regulatory.affairs@huber.com.

GHS Classification

Not classified **Physical Hazard**

Health Hazards Not classified

Environmental Hazard Hazardous to the aquatic environment - Acute, category 1

Hazardous to the aquatic environment - Chronic, category 1

Labeling

Symbols/Pictograms



Signal Word Warning

Hazard Statements Very toxic to aquatic life with long lasting effects

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

International Agency for Research on Cancer (IARC) Abbreviations and acronyms

International Air Transport Association (IATA)

International Maritime Dangerous Goods (IMDG)

International Uniform Chemical Information Database (IUCLID)

Workplace Hazardous Materials Information System (WHMIS) status and classification

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) The Classification, Labeling and Packaging of Substances and Mixtures (CLP) 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)

Reportable Quantity (RQ) (RQ/% in mixture)

STEL - Short Term Exposure Limit TLV® - Threshold Limit Value Derived No Effect Level (DNEL)

SVHC: Substances of Very High Concern for Authorization:

Land transport (ADR/RID)

Biochemical oxygen demand (BOD) Chemical oxygen demand (COD)

ICAO (air)

(IMDG) International Maritime Dangerous Goods

Positive Pressure Self-Contained Breathing Apparatus (SCBA)

Predicted No Effect Concentration (PNEC) Globally Harmonized System (GHS)

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