Safety Data Sheet



Kemgard® 911B-LSA

Japan-JIS Z 7253:2012 Occupational Safety and Health Act Globally Harmonized System (GHS)

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1. PRODUCT AND COMPANY IDENTIFICATION

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

Recommended Use Flame retardant Smoke suppressant

Uses advised against None known

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2. HAZARD IDENTIFICATION

Japan GHS Classification

Hazardous to the aquatic environment - Acute, category 1
Hazardous to the aquatic environment - Chronic, category 1
H361 - Suspected of damaging fertility or the unborn child
H370 - Causes damage to the following organs:

Respiratory system

R.

Systemic Toxicity

Physical Hazards Not classified

Health Hazard Causes damage to the following organs: Respiratory system, Systemic Toxicity

Suspected of damaging fertility or the unborn child

Environmental Hazards Very toxic to aquatic life

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Very toxic to aquatic life with long lasting effects

GHS label elements Symbols/Pictograms





Signal Word Danger

Hazard statements Causes damage to organs: Systemic Toxicity & Respiratory system Suspected of

damaging fertility or the unborn child Very toxic to aquatic life Very toxic to aquatic

life with long lasting effects

Precautionary Statements

Prevention Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection

Employ good industrial hygiene practice

Do not breathe dust

Wash hands thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid release to the environment

Response IF exposed or concerned: Call a POISON CENTER or doctor

IF ON SKIN: Wash with plenty of soap and water

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

Collect spillage

Storage Store away from incompatible materials.

Store locked up

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture Mixture

Chemical Name	CAS Number	Japan	Japan GHS Classification	REACH registration number	Weight-%
Zinc Oxide	1314-13-2	ENCS: (1)-561 ISHL: (1)-561	H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects H361 - Suspected of damaging fertility or the unborn child H370 - Causes damage to the following organs: Respiratory system	01-2119463881-32	>25

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			Systemic Toxicity		
Zinc Molybdenum	22914-58-5	(1)-781 (ENCS)(ISHL)	Not classified	01-2120800481-68-00	>25
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4. FIRST AID MEASURES

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

IF IN EYES: In case of eye contact, remove contact lens and rinse immediately with plenty of

water, also under the eyelids, for at least 15 minutes Call a physician if irritation develops and persists

If swallowed: Rinse mouth thoroughly with water

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved and take

precautions to protect themselves

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing

Media

Water spray (fog)
Dry chemical

Carbon dioxide (CO2)

Foam

Unsuitable Extinguishing Media Do not use water jetstream

Special hazards arising from the Avoid dust formation

substance or mixture

Fire-fighting measures In case of fire and/or explosion do not breathe fumes

Special Protective Equipment

for Firefighters

Wear self-contained breathing apparatus and protective suit

6. ACCIDENTAL RELEASE MEASURES

Protective Equipment and

Avoid dust formation

Precautions for Firefighters Ensure adequate ventilation

Use personal protection recommended in Section 8

Avoid contact with eyes and skin. Wear suitable personal protection equipment.

Keep unauthorized personnel away

Environmental Precautions Keep out of drains, sewers, ditches and waterways

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Disposal considerations

See section 13 for more information

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 Minimize

use of water during clean-up

Recommended filter type: High efficiency particulate air filter (HEPA filter)

Other Information Not applicable

7. HANDLING AND STORAGE

Handling

Technical measures Provide adequate ventilation as well as local exhaustion at critical locations

Ensure adequate ventilation

Use personal protection equipment See section 8 for more information

Advice on safe handling Minimize dust generation and accumulation

Conditions for safe storage,

including any incompatibilities

Hygiene Measures

Keep containers tightly closed in a cool, well-ventilated place

Wash hands thoroughly after handling

Storage

Packaging compatibilities Keep/store only in original container

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits Provide adequate ventilation as well as local exhaustion at critical locations

Zinc Oxide

Japan TWA: 4 mg/m³ (total dust) 1 mg/m³ (respirable dust)

Zinc Molybdenum

Japan Not established

Engineering Measures Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Respiratory Protection In case of inadequate ventilation wear respiratory protection

Hand protection For operations where prolonged or repeated skin contact may occur, impervious

gloves should be worn

Eye Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear suitable protective clothing.

Chemical resistant apron.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

Wash thoroughly after handling

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Avoid contact with eyes and skin

Do not breathe dust

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical State Solid

Color Powder White Odor Odorless

Odor Threshold

pH:

No information available
6.5 5% Water suspension

Melting Point / Melting Range

No information available

Initial boiling pointNo information availableFreezing PointNo information availableBoiling PointNo information available

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

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

Relative Density 5.1

Water Solubility Slightly soluble

Solubility in other solvents
Partition coefficient
Autoignition Temperature
Decomposition Temperature
No information available
No data available
No information available

Viscosity No information available

VOC Content (%) Not applicable

10. STABILITY AND REACTIVITY

Reactivity Stable under normal conditions

Chemical stability Stable under normal conditions

Possibility of hazardous

reactions

None known

Conditions to avoid Strong oxidizing agents.

Incompatible materials Strong oxidizing agents

Hazardous decomposition

products

None known

11. TOXICOLOGICAL INFORMATION

General InformationUsers are advised to consider national Occupational Exposure Limits or other equivalent values.

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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

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

Serious eye damage/eye

irritation

Dust may cause mechanical irritation to eyes

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

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.

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

Specific target organ toxicity -

Repeated exposure

12. ECOLOGICAL INFORMATION

EcotoxicityBased on available data, the classification criteria are not met

Persistence and degradability No data available

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Bioaccumulation No data available.

Mobility in soil No data available

Hazardous to the ozone layer No data available

13. DISPOSAL CONSIDERATIONS

Disposal Dispose of in accordance with federal, state and local regulations

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

or disposal

14. TRANSPORT INFORMATION

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

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

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

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



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Marine Pollutant



15. REGULATORY INFORMATION

Global Inventories

Pure substance/mixture Mixture

Chemical Name	CAS Number	EC No	REACH registrati on number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico		Philippine s (PICCS)	Taiwan	TSCA: United States
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	Υ	A
Zinc Molybdenum	22914-58- 5		01-212080 0481-68-0 000		Y	Y	(1)-781 (ENCS)(ISH L)	KE-11910	N	N	N	Υ	Α

Legend

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

KECL - Korean Existing and Evaluated Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

TSCA (Toxic Substances Control Act) DSL (Domestic Substance List)

NDSL (Non-Domestic Substances List) Japan - ISHL Notifiable Substances

ENCS - Japan Existing and New Chemical Substances

Zinc Molybdenum

Japanese Pollutant Release and Transfer Register - Class 1 Substance :453 >= 1.0%

16. OTHER INFORMATION

Prepared by Huber Engineered Materials Global Regulatory Affairs

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This SDS complies with the requirements of JIS Z 7250:2010 and JIS Z 7252:2009 (Japan) **Reason for Revision**

NITE GHS Classified list **Bibliography**

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Japan Society for occupational health (2015) recommendation of allowable concentrations.

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit

Value

Abbreviations and acronyms

International Agency for Research on Cancer (IARC)

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

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

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

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End of Safety Data Sheet