

Kemgard® 928

Japan-JIS Z 7253:2019 Occupational Safety and Health Act GHS (Globally Harmonized System)

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Product Name:Kemgard® 928Pure substance/mixtureMixtureMagnesium Hydroxide CAS Number1309-42-8Weight-%>50Zinc Molybdenum Oxide CAS Number22914-58-5 61583-60-6Weight-%>5Surface Treatment CAS NumberProprietary (<1)	1. PRODUCT AND COMPANY IDENTIFICATION		
Magnesium Hydroxide CAS Number1309-42-8 >50Zinc Molybdenum Oxide CAS Number22914-58-5 61583-60-6Weight-%22914-58-5 61583-60-6Weight-%>5Surface Treatment CAS NumberProprietary <1Recommended UseFlame retardant Smoke suppressantUses advised againstNone knownCompany:J.M. Huber Corporation 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300Internetwww.huberadvancedmaterials.comE-mailhubermaterials@huber.comEmergency Telephone NumberCHEMTREC: +1 800 424 9300 or International +1 703 527 3887	Product Name:	Kemgard® 928	
CAS Number1309-42-8Weight-%>50Zinc Molybdenum Oxide22914-58-5CAS Number22914-58-561583-60-6ProprietaryWeight-%>5Surface TreatmentProprietaryCAS NumberProprietaryWeight-%<1	Pure substance/mixture	Mixture	
Uses advised againstNone knownCompany:J.M. Huber Corporation 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300Internetwww.huberadvancedmaterials.comE-mailhubermaterials@huber.comEmergency Telephone NumberCHEMTREC: +1 800 424 9300 or International +1 703 527 3887	CAS Number Weight-% <u>Zinc Molybdenum Oxide</u> CAS Number Weight-% <u>Surface Treatment</u> CAS Number	>50 22914-58-5 61583-60-6 >5 Proprietary	
Company:J.M. Huber Corporation 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300Internetwww.huberadvancedmaterials.comE-mailhubermaterials@huber.comEmergency Telephone NumberCHEMTREC: +1 800 424 9300 or International +1 703 527 3887	Recommended Use	Flame retardant Smoke suppressant	
3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300Internetwww.huberadvancedmaterials.comE-mailhubermaterials@huber.comEmergency Telephone NumberCHEMTREC: +1 800 424 9300 or International +1 703 527 3887	Uses advised against	None known	
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Emergency Telephone Number CHEMTREC: +1 800 424 9300 or International +1 703 527 3887	Internet	www.huberadvancedmaterials.com	
	E-mail	hubermaterials@huber.com	
	Emergency Telephone Number		

2. HAZARD IDENTIFICATION

Japan GHS Classification Physical Hazards	Not classified
Health Hazard	Specific target organ toxicity (STOT) - repeated exposure, category 2
Environmental Hazards	Chronic Aquatic Toxicity, Category 3
GHS label elements Symbols/Pictograms	

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Signal Word	Warning
Hazard statements	May cause damage to organs through prolonged or repeated exposure Harmful to aquatic life with long lasting effects
Precautionary Statements Prevention	Do not breathe vapor or mist Employ good industrial hygiene practice Wash hands thoroughly after handling Avoid release to the environment
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing IF ON SKIN: Wash with plenty of soap and water Get medical help if you feel unwell
Storage	Store away from incompatible materials. Keep in a dry place
Disposal	Dispose of contents/container to an approved waste disposal plant
2 00M	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Pure	substance/mixture
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Chemical Name	CAS Number	Japan GHS Classification	Weight-%
Magnesium Hydroxide	1309-42-8	Not classified	>50
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	Acute Tox. 4, H332 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	>5
Surface Treatment	Proprietary	Not classified	<1

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

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	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	Water spray (fog)
Media	Foam
	Dry chemical
	Carbon dioxide (CO2)

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 Water mist may be used to cool closed containers Keep unauthorized personnel away

Special Protective Equipment forWear self-contained breathing apparatus and protective suit Firefighters

6. ACCIDENTAL RELEASE MEASURES

Protective Equipment and Precautions for Firefighters	Avoid dust formation 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 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	

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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	Keep containers tightly closed in a cool, well-ventilated place
Hygiene Measures	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
Magnesium Hydroxide	

<u>Magnesium Hydroxide</u> _{Japan} <u>Zinc Molybdenum Oxide</u> _{Japan}	Not established 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 Avoid contact with eyes and skin Do not breathe dust	
0 DH		

9. PH	YSICAL AND CHEMICAL PROPERTIES
Physical State	Solid, Powder
Color	White
Odor	Odorless
Odor Threshold	No information available
Melting Point / Melting Range	No data available
Boiling Point	No data available
Freezing Point	Not applicable
Autoignition Temperature	Not applicable

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Evaporation Rate	Not
Flammability (solid, gas)	No c
Explosive Properties	No c
Vapor Pressure	No c
Water Solubility	11.7
Partition coefficient	No c
Viscosity	No c
Specific Gravity	No c
Oxidizing Properties	No c
Decomposition Temperature	626
Flash Point	Non
Vapor Density	Not
Density	2.4 (
Relative Density	No c
Solubility in other solvents	No i

Not applicable No data available No data available No data available 1.7 mg/l , 25° C No data available Non-combustible. Not applicable 2.4 g/cm3, 20°C No data available No data available

10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	None known
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	None known

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	Avoid inhalation of the product
Skin	Prolonged or repeated contact may dry skin and cause irritation
Eyes	Dust contact with the eyes can lead to mechanical irritation
Ingestion	Ingestion is not a likely route of exposure
Aspiration hazard	Not an expected route of exposure.

11.1. Information on toxicological effects

Magnesium Hydroxide

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Oral LD50 <u>Zinc Molybdenum Oxide</u> Oral LD50 IARC Target Organ Effects <u>Surface Treatment</u> Oral LD50	8500 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) 2830 μL/kg (rat)
Acute Toxicity	Based on available data, the classification criteria are not met
Chronic Toxicity	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met
Respiratory Sensitization	Based on available data, the classification criteria are not met
Reproductive Effects	Based on available data, the classification criteria are not met.
Carcinogenicity	Not listed as a carcinogen.
Target Organ Effects	Skin. Eyes. Respiratory system.
Specific target organ toxicity - Single exposure	No information available.
Specific target organ toxicity - Repeated exposure	May cause damage to organs through prolonged or repeated exposure if inhaled. Kidney.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Harmful to aquatic life with long lasting effects			
Persistence and degradability	No data available			
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

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

ADR RID ADN IATA IMDG/IMO ICAO	Not regulated Not regulated Not regulated Not regulated Not regulated Not regulated
14.1. UN number	None
14.2. UN proper shipping name	None
14.3. Transport hazard class(es)	None
14.4. Packing group	None
14.5. Environmental hazards	No
14.6. Special precautions for user	Not applicable

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

15. REGULATORY INFORMATION

Global Inventories

Pure substance/mixture Mixture

Chemical Name	CAS Number	EC No	EU REACH registrati on number	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico		Philippine s (PICCS)	Taiwan	TSCA: United States
Hydroxide			01-211948 8756-18-0 040		Y	Y	(1)-386 (ENCS) (ISHL)	KE-22716	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)(ISH L)	KE-11910	Y: (MO-gene rics)	Y	Y	Y	A
Surface Treatment	Proprietar y	-		Y	Y	Y	Y	Y	Y	Y	Y	Y	A

Legend-Inventories

KECL - Korean Existing and Evaluated Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

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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 Oxide

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

16. OTHER INFORMATION

Prepared by	Huber Engineered Materials Global Regulatory Affairs email: regulatory.affairs@huber.com
Reason for Revision	This SDS complies with the requirements of JIS Z 7250:2010 and JIS Z 7252:2009 (Japan)
Bibliography	NITE GHS Classified list Japan Society for occupational health (2015) recommendation of allowable concentrations, etc. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value
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) ICAO (International Kritime 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 (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