



HYMOD® M9400 SP

MOL No. 2009-68Standards for Classification and Labeling of Chemical Substances and Material Safety Data Sheet (MSDS)

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

A. Product name HYMOD® M9400 SP

Chemical Name Mixture

Aluminum Hydroxide	
CAS Number	21645-51-2
Weight-%	>99
Proprietary Surface Treatment	
CAS Number	Proprietary
Weight-%	<1

B. Recommended use and Limitations on use

Recommended Use Flame re	etardant
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Uses advised against	None known
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C. Supplier information

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	Atlanta, GA 30339 USA
	Tel: +1 678 247-7300

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Section 2: HAZARDS IDENTIFICATION

A. Hazard category/Classification

Physical Hazards	Not classified
Health Hazards	Not classified
Environmental Hazards	Not classified

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B. Warning label items including precautionary statement

Label Elements	
Symbols/Pictograms	None
Signal Words	None
Hazard Statements	None
Precautionary statement Prevention	Employ good industrial hygiene practice
Response	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing 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 If swallowed, rinse mouth with water (only if the person is conscious) Drink plenty of water
Storage	Store away from incompatible materials
Disposal	Disposal should be in accordance with applicable regional, national and local laws and regulations

C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard) None known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	S. Korea (KECL)	Korean GHS Classification	TSCA: United States	Weight-%
Aluminum Hydroxide	21645-51-2	KE-00980	Not classified	Y	>99
Proprietary Surface Treatment	Proprietary	Y	Not classified	Y	<1

Legend

X / Y: Complies , - / N: Not Listed , Exempt

Section 4: FIRST AID MEASURES

- A. In case of eye contact Rinse with water. Get medical attention if irritation develops and persists.
- **B. In case of skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.
- **C. In case of inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

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D. In case of swallowing Rinse mouth. Get medical attention if symptoms occur.

E. Note to physician Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

A. Suitable (and unsuitable) extinguishing media

Suitable extinguishing
mediaWater fog. Foam. Dry chemical powder. Carbon dioxide (CO2).Unsuitable extinguishing
mediaNone known

B. Specific hazards arising from the chemical (example: hazardous combustion products)

Explosion hazard: None known

C. Specific methods of fire-fighting

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In the event of fire and/or explosion do not breathe fumes. Move container from fire area if it can be done without risk.

Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

A. Personal precautions, protective equipment and emergency measures Ensure adequate ventilation. Avoid dust formation. See section 8 for more information.

B. Environmental precautions Not considered to be harmful to aquatic life. Avoid discharge into drains, water courses or onto the ground.

C. Methods and materials for containment and cleaning up Vacuum or sweep material and place in a disposal container.

Section 7: HANDLING AND STORAGE

A. Precautions for safe handling

In case of exposure to environments exceeding the occupational exposure limit, wear a respirator in compliance with national legislation.

B. Conditions for safe storage (including any incompatibilities)

Keep container tightly closed in a dry and well-ventilated place

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Exposure limit values, biological limit values, etc

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Aluminum Hydroxide	TLV/TWA 8-hr: 1 mg/m³ (respirable fraction)
ACGIH	TWA: 15 mg/m³ Total Dust
OSHA	5 mg/m³ Respirable Dust
B. Engineering 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
C. Personal protective equipme	nt
• Eye protection	If contact is likely, safety glasses with side shields are recommended.
• Hand protection	For prolonged or repeated skin contact use suitable protective gloves.
• Body protection	Wear suitable protective clothing.
Hygiene Measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

clothing and protective equipment to remove contaminants.

Physical State Color Odor Odor Threshold pH: Melting Point / Melting Range Freezing Point Boiling Point Flash Point: Evaporation Rate Flammability (solid, gas) Upper flammability limit: Lower flammability limit: Vapor Pressure Vapor Density Density Water Solubility Solubility in other solvents Partition coefficient Autoignition Temperature Decomposition Temperature Kinematic viscosity	Solid Powder White Odorless No information available 8.4 - 10.2 (5% water suspension) Decomposition occurs prior to melting. Not applicable Decomposition occurs prior to boiling. Non-combustible Not applicable Not applicable No data available Not applicable Not applicable 2.4 g/cm3, 20°C Insoluble Not applicable Not applicable
Kinematic viscosity Explosive Properties Oxidizing Properties	No data available. Not applicable Not applicable
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Section 10: STABILITY AND REACTIVITY

A. Stability and hazardous reaction potential Stability Stable under normal conditions

Hazardous reaction None known potential

B. Conditions to avoid (e.g. static discharge, shock or Vibration, etc) Avoid creating dust. Incompatible materials.

C. Incompatible materials Strong oxidizing agents

D. Hazardous decomposition products No hazardous decomposition products are known.

Section 11: TOXICOLOGICAL INFORMATION

A. Information on likely routes o	•
• Mouth	Not an expected route of exposure
• Eyes	Dust contact with the eyes can lead to mechanical irritation
• Skin	Prolonged skin contact may cause temporary irritation.
B. Information on health hazards	5
Aluminum Hydroxide Oral LD50	> 2000 mg/kg Rat
Inhalation LC50	Rat > 2.3 mg/l (Al2O3) Aerosol Maximum attainable concentration
Aluminum Hydroxide	
IARC	Not Listed
Chronic Toxicity	Not classified.
Respiratory Sensitization	No data available
Serious eye damage/eye	Dust may cause mechanical irritation to eyes
irritation	
Skin Corrosion/Irritation	Prolonged or repeated contact may dry skin and cause irritation
	Theory of repeated bonder may ary skin and badde initiation
Mutagenicity	No data available
Germ cell mutagenicity	No data available.
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Reproductive Toxicity	Based on available data, the classification criteria are not met.

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Carcinogenicity Not listed.

Specific target organ toxicity - No data available. Single exposure

Specific target organ toxicity - No data available. Repeated exposure

Section 12: ECOLOGICAL INFORMATION

A. Ecotoxicity Hazardous to the aquatic environment, acute hazard	Not classified Avoid runoff to waterways and sewers
Hazardous to the aquatic environment, long-term hazard	Not classified Avoid runoff to waterways and sewers

- B. Persistence/degradability No data available
- C. Bioaccumulative potential No data available
- D. Mobility in soil No data available
- E. Other adverse effects No data available

Section 13: DISPOSAL CONSIDERATIONS

A. Method of disposal

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.

B. Disposal considerations (including disposal of contaminated containers or packaging) Disposal should be in accordance with applicable regional, national and local laws and regulations

Section 14: TRANSPORT INFORMATION

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

ADR	Not regulated
RID	Not regulated

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ADN	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
ICAO	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 Not applicable user

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

Section 15: REGULATORY INFORMATION

National Regulations

Aluminum Hydroxide	
CAS Number	21645-51-2
Weight-%	>99
Korean GHS Classification	Not classified
Proprietary Surface Treatment	
CAS Number	Proprietary
Weight-%	<1
Korean GHS Classification	Not classified

Other domestic and foreign regulations

Global Inventories

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
Aluminum Hydroxide	21645-51- 2		01-211952 9246-39-0 016		Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	Y	Y	Y	Y
Proprietary Surface Treatment	Proprietar y	*	Registere d	Y	Y	Y	Y	Y	Y	-	Y	Y	Y

Legend X / Y: Complies , - / N: Not Listed , Exempt

Section 16: OTHER INFORMATION

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A. Source of Information

	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)
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В.	Issue Date:	09/May/2019
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- C. Number of revisions and Date 1.3 of most recent revision
- D. Other
 - Prepared by

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End of Safety Data Sheet