



Safety Data Sheet

FIRE RETARDANT ADDITIVES

Zerogen® 50 SP

Prepared in accordance with GB/T 16483-2008, GB/T 24774-2009, GB 13690 – 2009, GB/T 17519–2013
Globally Harmonized System (GHS)

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Zerogen® 50 SP
Chemical Name	Mixture
<u>Magnesium hydroxide, surface treated</u>	
CAS Number	Proprietary Magnesium hydroxide CAS: 1309-42-8
Weight-%	99-100
Recommended Use	Flame retardant Smoke suppressant
Company:	J.M. Huber Corporation 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300
Emergency Telephone	CHEMTREC: 1 800 424 9300 or International +1 703 527 3887
E-mail	hubermaterials@huber.com
Internet	www.hubermaterials.com

Section 2: HAZARDS IDENTIFICATION

GHS Classification	Not classified
Physical Hazard	Not classified
Health Hazard	Not classified
Environmental Hazard	Not classified
Label Elements	
Symbols/Pictograms	None
Signal Word	None
<u>Precautionary Statements</u>	
Prevention	Avoid release to the environment

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Observe good industrial hygiene practices.
Avoid breathing dust.
Use mechanical ventilation (dilution and local exhaust) to control exposure

Response	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 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
Spills and Leaks	Collect spillage
Storage	Store in a dry place Store away from incompatible materials.
Disposal	Dispose in accordance with local, state and national regulations

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	China (IECSC)	China classification	TSCA: United States	REACH registration number	Weight-%
Magnesium hydroxide, surface treated	Proprietary Magnesium hydroxide CAS: 1309-42-8	Y	Not classified	A	01-2119488756-18-0040	99-100

Section 4: FIRST AID MEASURES

General Advice	In case of doubt or when symptoms persist, seek medical attention.
Eye Contact	Hold eyelids apart and flush eyes with a steady, gentle stream of water for several minutes.
Skin Contact	Wash skin with soap and water
Inhalation	Do not breathe dust IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious)
Notes to Physician	Treat symptomatically
Personal Protective Equipment For First Aid Responders	Wear suitable protective clothing IF exposed or concerned: Get medical advice/attention

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Expected acute symptoms and delayed symptoms May cause irritation to mucous membranes and respiratory tract Contact with dust can cause mechanical irritation or drying of the skin

Section 5: FIRE FIGHTING MEASURES

Flammable Properties None known

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: None known

Specific Hazards Arising from the Chemical None known

Protective measures: Use protective equipment that is appropriate for surrounding materials.

Protective Equipment and Precautions for Firefighters Wear self-contained breathing apparatus and protective suit

Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

Personal Precautions Ensure adequate ventilation. Avoid dust formation. Avoid inhalation of dust. Refer to Section 8 for personal protective equipment.

Environmental Precautions Prevent from entering into soil, ditches, sewers and waterways.

Methods for 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

Other Information: None known

Section 7: HANDLING AND STORAGE

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. Do not breathe dust. Ensure adequate ventilation. Wear appropriate personal protective clothing to prevent skin contact. Handle in accordance with good industrial hygiene and safety practice.

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

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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ACGIH	10 mg/m ³ TWA
NIOSH	--
OSHA	10 mg/m ³

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
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Personal Protective Equipment

Eye/Face Protection	Wear safety glasses with side shields (or goggles)
Skin and Body Protection	Wear suitable protective clothing
Hand Protection	Protective gloves
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice

Environmental Exposure Controls	Dispose of in accordance with local regulations
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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties**Appearance:**

Physical State	Solid Powder
Color	White
Odor	Odorless
Odor Threshold	No information available
pH:	8.4-10.2 (5% water suspension)
Melting Point / Melting Range	Not applicable
Initial boiling point and boiling range	Not applicable
Freezing Point	Not applicable
Flash Point:	Non-combustible.
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper flammability limit:	Not applicable
Lower flammability limit:	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	2.4 g/cm ³ , 20° C
Water Solubility	11.7 mg/l , 25° C
Solubility in other solvents	
Partition coefficient	Not applicable
Autoignition Temperature	Not applicable

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Decomposition Temperature 626 °F (330° C)

Viscosity Not applicable.

Specific Gravity 2.4 g/cm³, 20° C

VOC Content (%) Not applicable

Section 10: STABILITY AND REACTIVITY

Stability Stable under normal conditions

Conditions to avoid: Dust formation

Incompatible materials None known

Hazardous decomposition products None under normal processing

Hazardous Reactions None under normal processing

Hazardous polymerization: None under normal processing

Section 11: TOXICOLOGICAL INFORMATION

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

Product Information**Information on Likely Routes of Exposure**

Eyes Dust contact with the eyes can lead to mechanical irritation

Skin Contact with dust can cause mechanical irritation or drying of the skin

Inhalation Do not breathe dust
Inhalation of dust may cause irritation of the respiratory system

Ingestion Ingestion is not a likely route of exposure

11.1. Information on toxicological effects

Acute Toxicity Not classified

Chronic Toxicity Not classified.

Serious eye damage/eye Not classified

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irritation

Respiratory Sensitization	Not classified
Skin Corrosion/Irritation	Not classified
Skin Sensitization	Not classified
Mutagenicity	Not classified.
Reproductive Toxicity	Not classified.
Carcinogenicity	No known carcinogens are present at greater than 0.1%.
Specific target organ toxicity - Single exposure	Not classified.
Specific target organ toxicity - Repeated exposure	Not classified.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity	Not considered to be harmful to aquatic life. Avoid release to the environment.
Persistence/Degradability:	No data available.
Bioaccumulative Potential	This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
Partition coefficient	Not applicable
Bioconcentration factor (BCF)	No data available.
Mobility in soil	No data available.
Results of PBT and vPvB assessment	This substance does not meet the criteria for classification as PBT or vPvB.
Other Adverse Effects	None known

Section 13: DISPOSAL CONSIDERATIONS

Waste from Residues/Unused Products	Dispose of in accordance with local regulations
Contaminated Packaging:	Dispose of contents/container to an approved waste disposal plant

Section 16: OTHER INFORMATION

Prepared by	Huber Engineered Materials Global Regulatory Affairs email: regulatory.affairs@huber.com
Reason for Revision	GB/T 16483-2008 GB/T 24774-2009 GB 13690 – 2009 GB/T 17519–2013
GHS Classification	Not classified
Physical Hazard	Not classified
Health Hazard	Not classified
Environmental Hazard	Not classified
Label Elements	
Symbols/Pictograms	None
Signal Word	None
Abbreviations and acronyms	<p>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 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 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)</p>

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End of Safety Data Sheet