

### SpaceRite® S-3

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

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1. PRODUCT AND COMPANY IDENTIFICATION		
Product Name:	SpaceRite® S-3	
Chemical Name	Aluminum Hydroxide	
Pure substance/mixture	Substance	
Aluminum Hydroxide CAS Number Weight-%	21645-51-2 100	
Recommended Use	Flame retardant Smoke suppressant	
Uses advised against	None known	
Company:	J.M. Huber Corporation 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300	
Internet	www.huberadvancedmaterials.com	
E-mail	www.huberadvancedmaterials.com/contact	
Emergency Telephone Number	CHEMTREC: +1 800 424 9300 or International 1+703-527-3887 +81 03-3560-7316	

### 2. HAZARD IDENTIFICATION

Japan GHS Classification Physical Hazards	Not classified.
Health Hazard	Not classified.
Environmental Hazards	Not classified.
GHS label elements Symbols/Pictograms	None
Signal Word	None
Hazard statements	Based on available data, the classification criteria are not met.
Precautionary Statements Prevention	Do not handle until all safety precautions have been read and understood Employ good industrial hygiene practice Do not breathe dust

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Response	IF exposed or concerned: Get medical advice/attention Wash with plenty of soap and water
Storage	Store away from incompatible materials. Keep in a dry place
Disposal	Dispose of contents/container to an approved waste disposal plant
Additional Information:	None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture	
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Substance

Chemical Name	CAS Number	Japan GHS Classification	Weight-%
Aluminum Hydroxide	21645-51-2	Not classified.	100

### 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 Aide	r 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

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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		
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

Aluminum Hydroxide

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Japan	TWA: 2 mg/m <sup>3</sup>	
Engineering Measures	Ensure adequate ventilation, especially in confined areas	
Personal Protective Equipment		
<b>Respiratory Protection</b>	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	

9. PHYSICAL AND CHEMICAL PROPERTIES		
Physical State	Powder	
Color	White	
Odor	Odorless	
Odor Threshold	No information available	
Melting Point / Melting Range	No data available	
Boiling Point	No data available	
Freezing Point	No information available	
Autoignition Temperature	Not applicable	
Evaporation Rate	Not applicable	
Flammability (solid, gas)	No data available	
Explosive Properties	None	
Vapor Pressure	Not applicable	
Water Solubility	Insoluble	
Partition coefficient	No data available	
Viscosity	Not applicable	
Specific Gravity	No data available	
Oxidizing Properties	Not applicable	
Decomposition Temperature	392 °F (200 °C)	
Flash Point	Not applicable.	
pH:	8.4 - 10.2 5% Water suspension	
Melting point / Freezing point	ca 300 °C / 572 °F (101.3 kPa)	
Initial boiling point	5396 °F (2980 °C) 101.3 kPa	
Flammability (solid, gas)	Not applicable	
Vapor Density	Not applicable	
Relative Density	2.4 g/cm3, 20° C	
Solubility in other solvents	No information available	
VOC Content (%)	Not applicable None	

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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	of Exposure	
Inhalation	Do not breathe dust Inhalation of dust may cause irritation of the respiratory system	
Skin	Contact with dust can cause mechanical irritation or drying of the skin	
Ingestion	Ingestion is not a likely route of exposure	
Aspiration hazard	Not an expected route of exposure.	
Symptoms	Low hazard for usual industrial or commercial handling	
11.1. Information on toxicolog	ical effects	
<u>Aluminum Hydroxide</u> Oral LD50 IARC	> 2000 mg/kg Rat Not Listed	
Acute Toxicity	Based on available data, the classification criteria are not met.	
Chronic Toxicity	Based on available data, the classification criteria are not met.	
Chronic Effects	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Non-irritant Rabbit	
Respiratory Sensitization	No information available	
Skin Corrosion/Irritation	Non-irritant Rabbit	
Skin Sensitization	Based on available data, the classification criteria are not met. Not a skin sensitizer Guinea pig	

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Mutagenicity	in vitro. Not genotoxic in bacteria and mammalian cell systems. in vivo. Mutagenicity (micronucleus test). Rat. Negative. (weight of evidence approach).				
Germ cell mutagenicity	No information available.				
Reproductive Effects	Based on available data, the classification criteria are not met.				
Reproductive Toxicity	Based on available data, the classification criteria are not met.				
Carcinogenicity	Based on available data, the classification criteria are not met.				
Specific target organ toxicity - Single exposure	Not classified.				
Specific target organ toxicity - Repeated exposure	No information available.				
Mixture versus substance information	No information available.				
12. ECOLOGICAL INFORMATION					
Ecotoxicity	Based on available data, the classification criteria are not met.				
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**

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

ADR	Not regulated
RID	Not regulated
ADN	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

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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**

Occupational Safety and Health Not regulated Act

Poisonous and Deleterious Not regulated Substances Control Act

Act on the Evaluation of Not regulated Chemical Substances and Regulation of Their Manufacture, etc.

Japanese Pollutant Release and Not regulated Transfer Register - Class 1 Substance

Ship Safety Law, DangerousNot regulatedGoods Marine Transport andStorage Rule

**Global Inventories** 

Pure substance/mixture Substance

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)		TSCA: United States
Aluminum Hydroxide	21645-51- 2	244-492-7	01-211952 9246-39	Y	Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	Y	Y	Y	A

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

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**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

### **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 Dystem) 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 Civil Aviation Organization) IMDG (International Maritime 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 (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 (Agreement Concerning the International Carriage of Dangerous Goods by Road) RIS (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			

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