## **Safety Data Sheet**



#### Hydral® 710, Hydral® PGA-SD, SpaceRite® S-3 and SpaceRite® S-11

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

Issue Date: 28/May/2020 Revision Number: 1.3

**Print Date:** 28/May/2020 **Page 1 of 10** 

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Hydral® 710, Hydral® PGA-SD, SpaceRite® S-3 and SpaceRite® S-11

Pure substance/mixture Substance

Aluminum Hydroxide

**CAS Number** 21645-51-2

Weight-% 100

Recommended Use Flame retardant

Uses advised against None known

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

**Precautionary Statements** 

### **Safety Data Sheet**

Hydral® 710, Hydral® PGA-SD, SpaceRite® S-3 and SpaceRite® S-11

Issue Date: 28/May/2020 **Revision Number: 1.3** 

Print Date: 28/May/2020 Page 2 of 10

None Prevention

None Response

**Spills and Leaks** Collect spillage

Storage Store in a dry place

Dispose in accordance with local, state and national regulations Disposal

**General Advice** None

**Additional Information:** None.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture Substance

Chemical Name	CAS Number	China (IECSC)	China classification	TSCA: United States	REACH registration number	Weight-%
Aluminum Hydroxide	21645-51-2	Y	Not classified	Α	01-2119529246-39 -0016	100

**Additional Information:** TSCA A: Component is listed on Inventory as Active

### **Section 4: FIRST AID MEASURES**

**General Advice** None

Hold eyelids apart and flush eyes with a steady, gentle stream of water for several **Eye Contact** 

minutes.

**Skin Contact** Wash skin with soap and water

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

breathing

Ingestion Rinse mouth with water. Do not induce vomiting.

**Notes to Physician** Treat symptomatically

Personal Protective Equipment Wear suitable protective clothing

For First Aid Responders IF exposed or concerned: Get medical advice/attention

Expected acute symptoms and None known

delayed symptoms

### **Safety Data Sheet**

Hydral® 710, Hydral® PGA-SD, SpaceRite® S-3 and SpaceRite® S-11

Issue Date: 28/May/2020 Revision Number: 1.3

Print Date: 28/May/2020 Page 3 of 10

### **Section 5: FIRE FIGHTING MEASURES**

Flammable Properties None known

surrounding environment.

Unsuitable extinguishing media: None known

**Specific Hazards Arising from** 

the Chemical

None known

**Unusual fire & explosion** 

hazards:

None

**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 Avoid dust formation. When exposed to high concentrations of airborne dust, wear

a SCBA in accordance with national legislation

**Environmental Precautions**This product does not present any particular risk to the environment. Refer to

applicable national, state and local regulations prior to washing in drain.

Methods for cleaning up Pick up mechanically and / or by rinsing with water. Avoid dry sweeping and use a

sprinkler system or exhaust ventilation to prevent dust formation.

Other Information: None known

### Section 7: HANDLING AND STORAGE

Handling Avoid dust formation. Avoid breathing dust. Handle in accordance with good

industrial hygiene and safety practice.

**Storage** Store in a dry area. Keep containers closed and protect from physical damage.

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Aluminum Hydroxide

ACGIH TLV/TWA 8-hr: 1 mg/m³ (respirable fraction)

NIOSH TWA: 5 mg/m³ (respirable dust); 10 mg/m³ TWA (total dust)

OSHA TWA: 15 mg/m³ Total Dust 5 mg/m³ Respirable Dust

### **Safety Data Sheet**

Hydral® 710, Hydral® PGA-SD, SpaceRite® S-3 and SpaceRite® S-11

Issue Date: 28/May/2020 Revision Number: 1.3

Print Date: 28/May/2020 Page 4 of 10

Engineering Measures Ensure adequate ventilation, especially in confined areas

Provide a good standard of controlled ventilation (10 to 15 air changes per hour)

Personal Protective Equipment

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

Skin and Body Protection Wear suitable protective clothing

Hand Protection Impervious 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 Handle in

accordance with good industrial hygiene and safety practice

**Environmental Exposure** 

**Controls** 

Dispose of in accordance with local regulations

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

Odor

Physical State Solid

Powder Odorless

Odor Threshold No information available

pH: 8.4 - 10.2 5% Water suspension ca 300 °C / 572 °F (101.3 kPa) Initial boiling point 5396 °F (2980 °C) 101.3 kPa

Initial boiling point 5396 °F (2980 °F

Upper flammability limit:

Lower flammability limit:

Vapor PressureNot applicableVapor DensityNot applicableRelative Density2.4 g/cm3, 20° C

Water Solubility Insoluble

Solubility in other solvents
Partition coefficient
No information available
No information available

Autoignition Temperature

Decomposition Temperature

Viscosity

Not applicable
392 °F (200 °C)
Not applicable.

Explosive Properties None

Oxidizing Properties Not applicable

VOC Content (%) Not applicable

### **Safety Data Sheet**

Hydral® 710, Hydral® PGA-SD, SpaceRite® S-3 and SpaceRite® S-11

Issue Date: 28/May/2020 Revision Number: 1.3

Print Date: 28/May/2020 Page 5 of 10

## **Section 10: STABILITY AND REACTIVITY**

Stability Stable under normal conditions

Conditions to avoid: None known

Incompatible materials Strong acids

**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

**Inhalation** Based on available data, the classification criteria are not met

**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 toxicological effects

Aluminum Hydroxide

**Oral LD50** > 2000 mg/kg Rat

Inhalation LC50 Rat > 2.3 mg/l (Al2O3) Aerosol Maximum attainable concentration

IARC 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

### **Safety Data Sheet**

Hydral® 710, Hydral® PGA-SD, SpaceRite® S-3 and SpaceRite® S-11

Issue Date: 28/May/2020 Revision Number: 1.3

Print Date: 28/May/2020 Page 6 of 10

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

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.

## **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** Not considered to be harmful to aquatic life.

Persistence/Degradability: The methods for determining biodegradability are not applicable to inorganic

substances.

Bioaccumulative Potential Not likely to bioaccumulate.

Partition coefficient
Bioconcentration factor

(BCF)

No information available

Not available.

**Mobility in soil** No information available.

Results of PBT and vPvB

assessment

This substance does not meet the criteria for classification as PBT or vPvB.

Other Adverse Effects No information available

## **Safety Data Sheet**

Hydral® 710, Hydral® PGA-SD, SpaceRite® S-3 and SpaceRite® S-11

Issue Date: 28/May/2020 Revision Number: 1.3

Print Date: 28/May/2020 Page 7 of 10

### **Section 13: DISPOSAL CONSIDERATIONS**

Waste from Residues/Unused

Dispose of in accordance with local regulations

**Products** 

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

or disposal.

### **Section 14: TRANSPORT INFORMATION**

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

DOT Not regulated ADR Not regulated RID Not regulated ADN Not regulated IATA 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

usei

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **Section 15: REGULATORY INFORMATION**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **Global Inventories**

Chemical Name	CAS Number	EC No	REACH registration number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Zealand	Philippin es (PICCS)	Taiwan	TSCA: United States
Aluminum	21645-51-	244-492-7	01-211952924	Υ	Υ	Υ	(1)-17	KE-00980	Υ	Y	Υ	Υ	Α

# **Safety Data Sheet**

Hydral® 710, Hydral® PGA-SD, SpaceRite® S-3 and SpaceRite® S-11

**Issue Date:** 28/May/2020 **Print Date:** 28/May/2020 **Revision Number: 1.3** 

Page 8 of 10

Hydroxide	2	6-39-0016		(ENCS); ISHL			

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

### **Safety Data Sheet**

Hydral® 710, Hydral® PGA-SD, SpaceRite® S-3 and SpaceRite® S-11

Issue Date: 28/May/2020 Revision Number: 1.3

Print Date: 28/May/2020 Page 9 of 10

### **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 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)

### **Safety Data Sheet**

Hydral® 710, Hydral® PGA-SD, SpaceRite® S-3 and SpaceRite® S-11

Issue Date: 28/May/2020 Revision Number: 1.3

**Print Date:** 28/May/2020 **Page 10 of 10** 

**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

**End of Safety Data Sheet**