## SAFETY DATA SHEET



### Hydral® 710

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

Issue Date: 30/Mar/2020 Revision Number: 1.3

Print Date: 30/Mar/2020 Page 1 of 8

## **Section 1: PRODUCT AND COMPANY IDENTIFICATION**

A. Product name Hydral® 710

Pure substance/mixture Substance

Aluminum Hydroxide

**CAS Number** 21645-51-2

Weight-% 100

B. Recommended use and Limitations on use

Recommended Use Flame retardant

Uses advised against None known

C. Supplier information

Company Name J.M. Huber Corporation

3100 Cumberland Boulevard, Suite 600

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

E-mail hubermaterials@huber.com

**Internet** www.hubermaterials.com

Contact person CHEMTREC

**Emergency phone number** +1 800 424 9300 International +1 703 527 3887

## **Section 2: HAZARDS IDENTIFICATION**

### A. Hazard category/Classification

Physical Hazards Not classified

Health Hazards Not classified

Environmental Hazards Not classified

B. Warning label items including precautionary statement

**Label Elements** 

Hydral® 710

Issue Date: 30/Mar/2020 Revision Number: 1.3

Print Date: 30/Mar/2020 Page 2 of 8

Symbols/Pictograms None

Signal Words None

Hazard Statements None

**Precautionary statement** 

**Prevention** Employ good industrial hygiene practice

Do not handle until all safety precautions have been read and understood

Do not breathe dust

Wear protective gloves/protective clothing/eye protection/face protection

Response IF ON SKIN: Wash with plenty of soap and water

**Storage** Store away from incompatible materials

**Disposal** Dispose of contents/containers in accordance with local regulations

Additional Information: None.

C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)

None known

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture Substance

Chemical Name	CAS Number	S. Korea (KECL)	Korean GHS Classification	TSCA: United States	Weight-%	
Aluminum Hydroxide	21645-51-2	KE-00980	Not classified	Α	100	

Legend

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

Additional information TSCA A: Component is listed on Inventory as Active

## **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.

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

**E. Note to physician** Treat symptomatically.

Hydral® 710

Issue Date: 30/Mar/2020 Revision Number: 1.3

Print Date: 30/Mar/2020 Page 3 of 8

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

### A. Suitable (and unsuitable) extinguishing media

Suitable extinguishing

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

media

Unsuitable extinguishing

None known

media

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

Aluminum Hydroxide

ACGIH

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

OSHA

TWA: 15 mg/m³ Total Dust

5 mg/m<sup>3</sup> Respirable Dust

Hydral® 710

Issue Date: 30/Mar/2020 Revision Number: 1.3

**Print Date:** 30/Mar/2020 **Page 4 of 8** 

**B.** Engineering Controls. Ensure adequate ventilation, especially in confined areas

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

C. Personal protective equipment

Eye protection
 Hand protection
 If contact is likely, safety glasses with side shields are recommended.
 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

clothing and protective equipment to remove contaminants.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State Solid

Powder

**Odor** Odorless

Odor Threshold No information available

pH: 8.4 - 10.2 5% Water suspension Ca 300 °C / 572 °F (1013 kPa) Initial boiling point 5396 °F (2980 °C) 101,3 kPa

Flash Point: Not applicable Not applicable **Evaporation Rate** Not applicable Flammability (solid, gas) Upper flammability limit: No data available Lower flammability limit: No data available **Vapor Pressure** Not applicable **Vapor Density** Not applicable 2.4 g/cm3, 20° C **Relative Density** Insoluble **Water Solubility** 

Solubility in other solvents No information available

Partition coefficient
Autoignition Temperature

Decomposition Temperature

No information available
Not applicable
392 °F (200 °C)

Viscosity
Not applicable
No data available.

Explosive Properties None

Oxidizing Properties Not applicable

VOC Content (%) Not applicable

## Section 10: STABILITY AND REACTIVITY

Hydral® 710

Issue Date: 30/Mar/2020 Revision Number: 1.3

Print Date: 30/Mar/2020 Page 5 of 8

Stability Stable under normal conditions

**Hazardous reaction** 

potential

None known

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 of exposure

Mouth Not an expected route of exposure

Eyes
 Skin
 Dust contact with the eyes can lead to mechanical irritation
 Prolonged skin contact may cause temporary irritation.

B. Information on health hazards

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

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.

Respiratory Sensitization No information available

Serious eye damage/eye

irritation

Non-irritant Rabbit

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)

Hydral® 710

Issue Date: 30/Mar/2020 Revision Number: 1.3

Print Date: 30/Mar/2020 Page 6 of 8

**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**

A. Ecotoxicity

Hazardous to the aquatic Not classified

environment, acute hazard 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

Hydral® 710

Issue Date: 30/Mar/2020 Revision Number: 1.3

**Print Date:** 30/Mar/2020 **Page 7 of 8** 

## **Section 14: TRANSPORT INFORMATION**

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

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

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-% 100

Korean GHS Classification Not classified

#### Other domestic and foreign regulations

#### **Global Inventories**

Chemical Name	CAS Number	EC No	REACH registrati on	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	-	Philippine s (PICCS)	Taiwan	TSCA: United States
			number										
	21645-51-	-			Y	Y	(1)-17 (ENCS);	KE-00980	Υ	Υ	Y	Υ	Α
Hydroxide	2		9246-39-0 016				ISHL						

Legend

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

Hydral® 710

Issue Date: 30/Mar/2020 Revision Number: 1.3

**Print Date:** 30/Mar/2020 **Page 8 of 8** 

## **Section 16: OTHER INFORMATION**

#### 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)

**B. Issue Date:** 30/Mar/2020 **Print Date:** 30/Mar/2020

C. Number of revisions and Date 1.3 of most recent revision

#### D. Other

Prepared by Huber Engineered Materials Global Regulatory Affairs

email: regulatory.affairs@huber.com

**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**