



# Safety Data Sheet

FIRE RETARDANT ADDITIVES

## Hydral Coat SK

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006  
COMMISSION REGULATION (EU) No. 2020/878

Issue Date 26/Jan/2023

Print Date 26/Jan/2023

Revision Number 1.3

Page 1 of 11

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product Name:** Hydral Coat SK

**Pure substance/mixture** Substance

Chemical Name	CAS Number	EC No	EU REACH registration number	(CLP) Regulation (EC 1272/2008)	Weight-%
Aluminum Hydroxide	21645-51-2	244-492-7	01-2119529246-39	Not classified	100

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Flame retardant

**Uses advised against** None known.

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer** J.M. Huber Corporation  
3100 Cumberland Boulevard, Suite 600  
Atlanta, GA 30339 USA  
Tel: +1 678 247-7300

**Internet** [www.hubermaterials.com](http://www.hubermaterials.com)

**E-mail** [hubermaterials@huber.com](mailto:hubermaterials@huber.com)

**1.4. Emergency telephone number** CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

**Poison control center phone number** National Anti-Poison Center UK: +44 844 892 0111 (National Poisons Information Service)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

(CLP) Regulation (EC 1272/2008) Not classified

**Hazards identification**

**Physical Hazard** Not classified

Issue Date 26/Jan/2023  
Print Date 26/Jan/2023

Revision Number 1.3  
Page 2 of 11

**Health Hazards** Not classified

**Environmental Hazard** Not classified

### 2.2. Label elements

**Symbols/Pictograms** None

**Signal Word** None

**Hazard Statements** None

### Precautionary Statements

**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** Keep in a dry place  
Store away from incompatible materials

**Disposal** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Additional Information:** None.

**2.3. Other hazards** No information available.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance Substance

Chemical Name	CAS Number	EC No	EU REACH registration number	(CLP) Regulation (EC 1272/2008)	Annex	Weight-%
Aluminum Hydroxide	21645-51-2	244-492-7	01-2119529246-39	Not classified	--	100

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General Advice** When in doubt or if symptoms are observed, get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**Eye Contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

	lenses, if present and easy to do. Continue rinsing.
<b>Skin Contact</b>	Wash with plenty of soap and water.
<b>Inhalation</b>	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>Ingestion</b>	Rinse mouth thoroughly with water.
<b>Aspiration hazard</b>	Not an expected route of exposure.
<b>Notes to Physician</b>	Treat symptomatically.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Signs and symptoms may include coughing, gasping, choking and difficulty breathing.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Treatment should be symptomatic and supportive.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable Extinguishing Media

None known.

### 5.2. Special hazards arising from the substance or mixture

None known.

### 5.3. Advice for firefighters

#### Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### Fire-fighting measures

In case of fire and/or explosion do not breathe fumes.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and

Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid dust formation. Keep unauthorized personnel away.

# Safety Data Sheet

## Hydral Coat SK

Issue Date 26/Jan/2023  
Print Date 26/Jan/2023

Revision Number 1.3  
Page 4 of 11

### emergency procedures

- For non-emergency personnel** Keep unauthorized personnel away.
- For emergency responders** Keep unauthorized personnel away. Use personal protection recommended in Section 8.

**6.2. Environmental precautions** Avoid runoff to waterways and sewers.

**6.3. 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

**6.4. Reference to other sections** Section 8: Exposure controls and personal protection. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Minimize dust generation and accumulation  
Provide local exhaust ventilation  
Handle in accordance with good industrial hygiene and safety practice

**7.2. Conditions for safe storage, including any incompatibilities** Store away from incompatible materials  
Keep container tightly closed and dry

**7.3. Specific end use(s)** Flame retardant.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Aluminum Hydroxide

ACGIH	TLV/TWA 8-hr: 1 mg/m <sup>3</sup> (respirable fraction)
OSHA	TWA: 15 mg/m <sup>3</sup> Total Dust 5 mg/m <sup>3</sup> Respirable Dust
NIOSH	TWA: 5 mg/m <sup>3</sup> (respirable dust); 10 mg/m <sup>3</sup> TWA (total dust)
France	Not established (Non établi)
France	Not established (Non établi)
Poland	2.5 mg/m <sup>3</sup> (inhalable); 1.2 mg/m <sup>3</sup> (respirable)
Switzerland	TWA: 3 mg/m <sup>3</sup>
United Kingdom	10 mg.m-3 (inhalable); 4 mg.m-3 (respirable)

**Recommended monitoring procedures** Refer also to national guidance documents for information on currently recommended monitoring procedures

**Biological Limit Values** None

**DNEL (Derived No Effect Level)** Consumer - oral, long-term - local and systemic 4.74 mg/kg bw/day  
Worker - inhalative, long-term - local and systemic 10.74 mg/m<sup>3</sup>

Issue Date 26/Jan/2023  
 Print Date 26/Jan/2023

Revision Number 1.3  
 Page 5 of 11

**PNEC (Predicted No Effect Concentration)** No information available

### 8.2. Exposure controls

<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas Provide a good standard of controlled ventilation (10 to 15 air changes per hour)
<b>Personal protective equipment</b>	
<b>Eye/Face Protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and Body Protection</b>	Wear suitable protective clothing.
<b>Hand protection</b>	For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.
<b>Thermal hazards</b>	None known.
<b>Hygiene Measures</b>	Follow general hygiene considerations recognized as common good workplace practices The worker should wash daily at the end of each work shift, and prior to eating, drinking, smoking, etc
<b>Environmental Exposure Controls</b>	Dispose of in accordance with local regulations

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance:**

<b>Physical State</b>	Solid Powder
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available
<b>pH:</b>	8.4 - 10.2 5% Water suspension
<b>Melting point / Freezing point</b>	ca 300 °C / 572 °F (101.3 kPa)
<b>Initial boiling point</b>	5396 °F (2980 °C) 101.3 kPa
<b>Freezing Point</b>	Not applicable
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper flammability limit:</b>	--
<b>Lower flammability limit:</b>	--
<b>Vapor Pressure</b>	Not applicable
<b>Vapor Density</b>	Not applicable
<b>Vapor Density</b>	Not applicable
<b>Density</b>	No data available
<b>Relative Density</b>	2.4 g/cm <sup>3</sup> , 20° C

Issue Date 26/Jan/2023  
Print Date 26/Jan/2023

Revision Number 1.3  
Page 6 of 11

<b>Water Solubility</b>	Insoluble
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	392 °F (200 °C)
<b>Viscosity</b>	Not applicable.
<b>Kinematic viscosity</b>	Not applicable
<b>Explosive Properties</b>	None
<b>Oxidizing Properties</b>	Not applicable
<b>Particle Size</b>	No information available
<b>VOC Content (%)</b>	Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Not applicable

#### 9.2.2. Other safety characteristics

Not applicable

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	None
<b>10.2. Chemical stability</b>	Stable under normal conditions
<b>10.3. Possibility of hazardous reactions</b>	None under normal processing
<b>10.4. Conditions to avoid</b>	Incompatible materials
<b>10.5. Incompatible materials</b>	Strong acids
<b>10.6. Hazardous decomposition products</b>	None known

## SECTION 11: Toxicological information

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

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Aluminum Hydroxide

<b>Oral LD50</b>	> 2000 mg/kg Rat
<b>Inhalation LC50</b>	Rat > 2.3 mg/l (Al <sub>2</sub> O <sub>3</sub> ) Aerosol Maximum attainable concentration
<b>IARC</b>	Not Listed

# Safety Data Sheet

## Hydral Coat SK

Issue Date 26/Jan/2023  
Print Date 26/Jan/2023

Revision Number 1.3  
Page 7 of 11

<b>Acute Toxicity</b>	Based on available data, the classification criteria are not met
<b>Chronic Toxicity</b>	Based on available data, the classification criteria are not met.
<b>Chronic Effects</b>	Based on available data, the classification criteria are not met.
<b>Respiratory Sensitization</b>	No information available
<b>Serious eye damage/eye irritation</b>	Non-irritant Rabbit
<b>Skin Corrosion/Irritation</b>	Non-irritant Rabbit
<b>Skin Sensitization</b>	Based on available data, the classification criteria are not met Not a skin sensitizer Guinea pig
<b>Mutagenicity</b>	in vitro Not genotoxic in bacteria and mammalian cell systems. in vivo Mutagenicity (micronucleus test) Rat Negative (weight of evidence approach)
<b>Germ cell mutagenicity</b>	No information available.
<b>Reproductive Effects</b>	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - Single exposure</b>	Not classified.
<b>Specific target organ toxicity - Repeated exposure</b>	No information available.
<b>Mixture versus substance information</b>	No information available
<b>Information on Likely Routes of Exposure</b>	
<b>Inhalation</b>	Do not breathe dust Inhalation of dust may cause irritation of the respiratory system
<b>Ingestion</b>	Ingestion is not a likely route of exposure
<b>Skin</b>	Contact with dust can cause mechanical irritation or drying of the skin
<b>Eyes</b>	Dust contact with the eyes can lead to mechanical irritation
<b>Aspiration hazard</b>	Not an expected route of exposure.

### 11.2. Information on other hazards

**11.2.1. Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors

11.2.2. Other information Not applicable

**SECTION 12: Ecological information**

12.1. Toxicity Not considered to be harmful to aquatic life

**Aluminum Hydroxide**

WGK Classification (AwSV) 5220 WGK: nwg

12.2. Persistence and degradability The methods for determining biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential Not likely to bioaccumulate.

Partition coefficient No information available

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Disposal Methods Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste codes Waste codes should be assigned by the user based on the application for which the product was used

**Aluminum Hydroxide**European Waste Catalog 060299  
WGK Classification (AwSV) 5220 WGK: nwg**SECTION 14: Transport information**



HUBER

# Safety Data Sheet

## Hydral Coat SK

Issue Date 26/Jan/2023  
Print Date 26/Jan/2023

Revision Number 1.3  
Page 9 of 11

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

TDG -Canada	Not regulated
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 or ID 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. Maritime transport in bulk according to IMO instruments  
Not applicable

## SECTION 15: Regulatory information

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

#### Global Inventories

#### Pure substance/mixture

#### Substance

Chemical Name	CAS Number	EC No	Australia (AIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Aluminum Hydroxide	21645-51-2	244-492-7	Y	Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	55-1-02594	Y	Y	Y	A

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

#### REACH No.

#### Aluminum Hydroxide

EU REACH registration number 01-2119529246-39  
Turkish KKDIK pre-registration 05-0000193352-73-0000

#### Germany

# Safety Data Sheet

## Hydral Coat SK

Issue Date 26/Jan/2023  
Print Date 26/Jan/2023

Revision Number 1.3  
Page 10 of 11

Not considered to be harmful to aquatic life

### Aluminum Hydroxide

WGK Classification (AwSV) 5220 WGK: nwg

### 15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

## SECTION 16: Other information

**Reason for Revision** This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 & COMMISSION REGULATION (EU) No. 2020/878

**Issue Date** 26/Jan/2023

**Print Date** 26/Jan/2023

**Revision Number** 1.3

**Prepared by** Huber Engineered Materials Global Regulatory Affairs  
email: regulatory.affairs@huber.com.

**(CLP) Regulation (EC 1272/2008)** Not classified

### Labeling

**Symbols/Pictograms** None

**Signal Word** None

**Hazard Statements** None.

**Training Advice** Do not handle until all safety precautions have been read and understood.

### Abbreviations and acronyms

IARC (International Agency for Research on Cancer)  
 IUCLID (International Uniform Chemical Information Database)  
 WHMIS (Workplace Hazardous Materials Information System)  
 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)  
 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 Rail)  
 IATA (International Air Transport Association)  
 IMDG (International Maritime Dangerous Goods)  
 DOT (Department of Transportation)  
 TDG (Transport of Dangerous Goods) Canada

HUBER

# Safety Data Sheet

## Hydral Coat SK

**Issue Date** 26/Jan/2023  
**Print Date** 26/Jan/2023

**Revision Number** 1.3  
**Page 11 of 11**

PNEC (Predicted No Effect Concentration)  
SCBA (Self-Contained Breathing Apparatus) Positive Pressure  
GHS (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.

**End of Safety Data Sheet**