HUBER MARTINSWERK

Safety Data Sheet

Alumina Hydrate

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 **COMMISSION REGULATION (EU) No. 2015/830**

Issue Date: 23/Aug/2019 **Revision Number: 1.1** Print Date: 23/Aug/2019

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

1.1. Product identifier

Alumina Hydrate Product Name:

Substance Pure substance/mixture

Chemical Name	CAS Number	EC No	REACH registration number	(CLP) Regulation (EC 1272/2008)	TSCA: United States	Weight-%
Aluminum Hydroxide	21645-51-2	244-492-7	01-2119529246- 39-0016	Not classified	А	>99

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

Recommended Use Water treatment

Industrial use Use in water treatment chemicals

Professional use Use in water treatment chemicals

Consumer use Use in water treatment chemicals

1.3. Details of the supplier of the safety data sheet

MARTINSWERK GmbH Company:

> Kölner Strasse 110 50127 Bergheim

Germany

Tel.: +49-2271-90.22.78 Fax.: +49-2271-90.27.17

Internet www.hubermaterials.com

E-mail hubermaterials@huber.com

1.4. Emergency telephone

number

CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

Poison control center phone

number

Information Service)

National Anti-Poison Center UK: +44 844 892 0111 (National Poisons

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazards identification

Physical Hazard Not classified

Not classified **Health Hazards**

Environmental Hazard Not classified

2.2. Label elements

Symbols/Pictograms None

Signal Word None

Hazard Statements This product is not classified as hazardous according to the UN GHS guideline

and labeling is not required

This material is not considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200)

Precautionary Statements

Prevention Employ good industrial hygiene practice

Wash hands thoroughly after handling

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact Response

lenses, if present and easy to do. Continue rinsing IF ON SKIN: Wash with plenty of soap and water

Keep in a dry place Storage

Store away from incompatible materials

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

and regulations.

Additional Information: None.

2.3. Other hazards No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances Substance

	Chemical Name	CAS Number	EC No	REACH registration number	(CLP) Regulation (EC 1272/2008)	TSCA: United States	Weight-%
Г	Aluminum Hydroxide	21645-51-2	244-492-7	01-2119529246-	Not classified	 Α	>99
	-			39-0016			

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

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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 In case of eye contact, remove contact lens and rinse immediately with plenty of

water, also under the eyelids, for at least 15 minutes.

Skin Contact Wash with plenty of soap and water.

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing.

Ingestion Rinse mouth thoroughly with water.

Aspiration hazard Not an expected route of exposure.

Notes to Physician Treat symptomatically.

4.2. Most important symptoms

and effects, both acute and

delayed

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can

cause mechanical irritation or drying of the skin.

4.3. Indication of any immediate medical attention and special

treatment needed

4.3. Indication of any immediate 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 (CO2).

Unsuitable Extinguishing Media

None known.

5.2. Special hazards arising

from the substance or mixture

Heating the material above 392°F (200°C) will result in sudden release of water vapor (steam).

5.3. Advice for firefighters

Special protective

equipment for firefighters

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

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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 emergency procedures

Ensure adequate ventilation. Use personal protection recommended in Section 8.

Avoid dust formation. Keep unauthorized personnel away.

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.

Methods for Containment: Prevent further leakage or spillage if safe to do so 6.3. Methods and material for Methods for Clean-up: Sweep up and shovel into suitable containers for disposal containment and cleaning up

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, Store away from incompatible materials including any incompatibilities Keep container tightly closed and dry

No information available. 7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Aluminum Hydroxide

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

OSHA TWA: 15 mg/m³ Total Dust

5 mg/m³ Respirable Dust

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

Not established (Non établi) **France** Not established (Non établi) **France** 6 mg/m³ TWA (aerosol) Russia

Switzerland TWA: 3 mg/m³

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10 mg.m-3 (inhalable); 4 mg.m-3 (respirable) **United Kingdom**

Recommended monitoring

procedures

Refer also to national guidance documents for information on currently

recommended monitoring procedures

Biological Limit Values: None

8.2. Exposure controls

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

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

Personal protective equipment

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

Skin and Body Protection Wear suitable protective clothing.

Hand protection For operations where prolonged or repeated skin contact may occur, impervious

gloves should be worn. Wear suitable gloves tested to EN 374.

When workers are facing concentrations above the exposure limit they must use **Respiratory Protection**

appropriate certified respirators.

Recommended filter type:

(FFP2) (FFP3)

Thermal hazards None known.

Follow general hygiene considerations recognized as common good workplace **Hygiene Measures**

practices

The worker should wash daily at the end of each work shift, and prior to eating,

drinking, smoking, etc

Environmental Exposure

Controls

Dispose of in accordance with local regulations

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical State Solid Pellets or Granules

White Color

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Odorless Odor

Odor Threshold No information available +/- 9 (10% Water) :Ha

~ 300 °C / 572 °F (1013 hPa) Melting point / Freezing point

Initial boiling point and boiling Not applicable

range

Flash Point: Not applicable. Product/Substance is inorganic. Solid.

Evaporation Rate Not applicable. Not flammable Flammability (solid, gas)

Upper flammability limit: Lower flammability limit:

Vapor Pressure Not applicable **Vapor Density** Not applicable

Relative Density +/- 2.42 g/cm³ (20 °C)

Water Solubility Insoluble

Solubility in other solvents No information available

Partition coefficient Not applicable Product/Substance is inorganic

Autoignition Temperature No information available **Decomposition Temperature** No information available Dynamic viscosity Not applicable Solid

Explosive Properties None **Oxidizing Properties** None

9.2. Other information

No data available

SECTION 10: Stability and reactivity

No data available 10.1. Reactivity

10.2. Chemical stability Stable under normal conditions

10.3. Possibility of hazardous

reactions

None under normal processing

10.4. Conditions to avoid Decomposition Temperature < / =0.3% : Al₂O₃ Water

10.5. Incompatible materials None known

10.6. Hazardous decomposition None known

products

SECTION 11: Toxicological information

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

equivalent values.

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Information on Likely Routes of Exposure

Inhalation Do not breathe dust

Avoid prolonged or repeated contact with skin Skin

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

Avoid contact with eyes **Eves**

Dust contact with the eyes can lead to mechanical irritation

Ingestion Ingestion is not a likely route of exposure

Not an expected route of exposure. **Aspiration hazard**

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

Reproductive Toxicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Ecotoxicity Very low solubility. Not considered to be harmful to aquatic life.

Aluminum Hydroxide

WGK Classification (AwSV) 5220 WKG: 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.

Bioconcentration factor

(BCF)

No data 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. Other adverse effects No information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

and regulations.

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

or disposal. Do not reuse container.

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 WKG: nwg

SECTION 14: Transport information

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

Not regulated **TDG** -Canada DOT Not regulated Not regulated **IATA** Not regulated IMDG/IMO Not regulated **ICAO**

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

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

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Global Inventories

Pure substance/mixture Substance

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										
Aluminum Hvdroxide	21645-51- 2		01-211952 9246-39-0		Y	Y	(1)-17 (ENCS);	KE-00980	Y	Y	Y	Y	A
liyuloxide	_		016				ISHL						

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

National Regulations

Germany

Aluminum Hydroxide

WGK Classification (AwSV) 5220 WKG: 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. 2015/830

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Prepared by Huber Engineered Materials Global Regulatory Affairs

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

Labeling

Symbols/Pictograms None

Signal Word None

Hazard Statements This product is not classified as hazardous according to the UN GHS guideline

and labeling is not required This material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

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

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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)

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