

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



58942 Aluminum Hydroxide, fine

Page 1

Revised edition: 25.09.2020

Version: 1.1

Printed: 17.11.2020

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Aluminum Hydroxide, fine

Article No.: 58942

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

*Flame retardant
Intermediate product*

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

E-Mail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

*Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)*

This product does not require classification and labelling as hazardous according to CLP/GHS.

Possible Environmental Effects:

2.2. Label Elements

*Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)*

This product does not require classification and labelling as hazardous according to CLP/GHS.

Hazard designation:

Not applicable.

Signal word:

Hazard designation:

Safety designation:

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

Substance

next page: 2

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



58942 Aluminum Hydroxide, fine

Page 2

Revised edition: 25.09.2020

Version: 1.1

Printed: 17.11.2020

3.1.

3.2. Mixture

Chemical Characterization:

Information on Components / Hazardous Ingredients:

Aluminium hydroxide; REACH Reg. No. 01-2119529246-39-xxxx	100 %	CAS-Nr: 21645-51-2 EINECS-Nr: 244-492-7 EC-Nr:
---	-------	--

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Seek medical attention in case of complaints.

After inhalation:

Supply fresh air.

After skin contact:

Wash off with plenty of water and soap.

After eye contact:

Rinse open eye for several minutes under running water.

After ingestion:

Rinse mouth with plenty of water.

Do not induce vomiting.

If symptoms persist consult physician.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

No further information available.

Effects:

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

No further information available.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

Halons

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

Product is not flammable.

Do not inhale explosion and smoke fumes and gases.

next page: 3

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



58942 Aluminum Hydroxide, fine

Page 3

Revised edition: 25.09.2020

Version: 1.1

Printed: 17.11.2020

5.3. Advice for Firefighters

Protective equipment:

Wear suitable protective clothing.

Further information:

Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Ensure adequate ventilation.

Wear protective clothing.

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soil, drains and surface waters.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Take up mechanically and collect in suitable containers for disposal.

6.4. Reference to other Sections

Protective clothing, see Section 8.

Dispose of contaminated material according to Section 13.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Avoid contact with eyes and skin.

Avoid formation of dust. Do not inhale dust.

Hygienic measures:

Keep away from foodstuffs and drinks.

Remove contaminated clothing before entering dining areas.

Wash hands at the end of work. Preventive skin protection recommended.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store product in a cool, dry and well ventilated area.

Protect product from humidity.

Do not store together with food stuff and animal feed.

Requirements for storage areas and containers:

Store the product in the original container.

Information on fire and explosion protection:

No special measures necessary.

Storage class:

next page: 4

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



58942 Aluminum Hydroxide, fine

Page 4

Revised edition: 25.09.2020

Version: 1.1

Printed: 17.11.2020

13; Non combustible solids (TRGS 510)

Further Information:

Do not mix with acids.

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900

TLV: 1.25 mg/m³ air-borne fraction (general dust limit)

TLV: 10 mg/m³ inhalable fraction (general dust limit)

Peak limit category 2

Category II: substances with a resorptive effect.

Parameters to be controlled:

Derived No-Effect Level (DNEL):

10.76 mg/m³ (worker, inhalation, long-term exposition - systemic effects)

4.75 mg/kg bw/d (consumer, swallowing, long-term exposition - systemic effects)

Predicted No-Effect Concentration (PNEC):

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation/exhaust system.

Personal Protection

General protective measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and after work.

Respiratory protection:

Respiratory equipment required in case of insufficient ventilation, particle filter (EN 143)

Hand protection:

Chemical protective gloves (EN 374 (Europe), F739 (US)).

Protective glove material:

Eye protection:

Not required.

Body protection:

Protective clothing.

Environmental precautions:

Prevent from getting into the soil, surface water and sewage

next page: 5

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



58942 Aluminum Hydroxide, fine

Page 5

Revised edition: 25.09.2020

Version: 1.1

Printed: 17.11.2020

system.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form:	<i>powder</i>
Color:	<i>white</i>
Odor:	<i>odorless</i>
Odor threshold:	<i>No information available.</i>
pH-Value:	<i>8 - 9 (100 g/l; 20°C)</i>
Melting temperature:	<i>not available</i>
Boiling temperature:	<i>not determined</i>
Flash point:	<i>not applicable</i>
Evaporation rate:	<i>not applicable</i>
Flammability (solid, gas):	<i>non-combustible</i>
Upper explosion limit:	<i>no information available</i>
Lower explosion limit:	<i>no information available</i>
Vapor pressure:	<i>< 0.001 kPa (20°C)</i>
Vapor density:	<i>No information available.</i>
Density:	<i>2.42 g/cm³ (20°C)</i>
Solubility in water:	<i>1.5 mg/l (20°C)</i>
Coefficient of variation (n-Octanol/Water):	<i>not applicable</i>
Auto-ignition temperature:	<i>not applicable</i>
Decomposition temperature:	<i>> 150°C</i>
Viscosity, dynamic:	<i>not applicable</i>
Explosive properties:	<i>Product does not present an explosion hazard.</i>
Oxidizing properties:	

next page: 6

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



58942 Aluminum Hydroxide, fine

Page 6

Revised edition: 25.09.2020

Version: 1.1

Printed: 17.11.2020

not oxidizing

Bulk density:

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

No further information.

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Unknown.

10.4. Conditions to Avoid

Conditions to avoid:

No further information available.

Thermal decomposition:

10.5. Incompatible Materials

Acids and bases

Fluorine

10.6. Hazardous Decomposition Products

None if stored and handled according to specifications.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral: > 2000 mg/kg (rat)

LD50, dermal:

No information available.

LC50, inhalation:

No information available.

Primary effects

Irritant effect on skin:

Non irritating (rabbit; OECD 404)

next page: 7

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



58942 Aluminum Hydroxide, fine

Page 7

Revised edition: 25.09.2020

Version: 1.1

Printed: 17.11.2020

Irritant effect on eyes:

Non-irritating to eyes (rabbit; OECD 405)

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effects known.

Mutagenicity:

No relevant data found.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No relevant data found.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

No relevant data found.

Additional toxicological information:

12. Ecological Information

12.1. Aquatic Toxicity

No information available.

Fish toxicity:

Daphnia toxicity:

Bacteria toxicity:

Algae toxicity:

12.2. Persistency and Degradability

No information available.

12.3. Bioaccumulation

No information available.

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

Not applicable.

12.6. Other Adverse Effects

Water hazard class:

Not hazardous.

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

next page: 8

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



58942 Aluminum Hydroxide, fine

Page 8

Revised edition: 25.09.2020

Version: 1.1

Printed: 17.11.2020

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

Dispose of according to official national and local regulations.

European Waste Code (EWC):

Uncleaned packaging:

Dispose of according to official local regulations.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

14.2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR (land transportation).

IMDG/IATA:

No hazardous goods according to IMDG.

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14.4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14.5. Environmental Hazards

None

14.6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

next page: 9

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



58942 Aluminum Hydroxide, fine

Page 9

Revised edition: 25.09.2020

Version: 1.1

Printed: 17.11.2020

14.8. Further Information

15. Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

0, not hazardous (German Regulation)

Local regulations on chemical accidents:

Seveso III: does not apply

Employment restrictions:

Restriction and prohibition of application:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: not applicable

Technical instructions on air quality:

5.2.1. Total dust, including fine dust: > 25 wt-% (m >= 0.2 g/h, conc. 20 mg/m³)

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this product.

15.3. Further Information

RoHS Directive 2011/65/EC on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS 2): not listed.

Regulation (EC) No. 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register (PRTR): Not listed

Regulation (EU) No. 98/2013 on the marketing and use of explosives precursors: Not listed

Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable

Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Not applicable

EU Water Directive (2006/60/EC):

Substance name: aluminium hydroxide; Metals and metal compounds (List A)

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.