Safety Data Sheet



Micral® 916

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

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Micral® 916

Pure substance/mixture Substance

Aluminum Hydroxide

CAS Number 21645-51-2

Weight-% 100

Recommended Use Flame retardant

Uses advised against None known

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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

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None Prevention

Response None

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	100
					-0016	

Section 4: FIRST AID MEASURES

General Advice None

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

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

Rinse mouth with water. Do not induce vomiting. Ingestion

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

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Section 5: FIRE FIGHTING MEASURES

Flammable Properties None known

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

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

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

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

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

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

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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:

Physical State Solid

Powder

Odor 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

Flash Point:

Evaporation Rate
Flammability (solid, gas)

Not applicable
Not applicable

Upper flammability limit:

Lower flammability limit:

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

Water Solubility Insoluble

Solubility in other solventsPartition 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

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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

<u>Aluminum Hydroxide</u>

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

Respiratory Sensitization No information available

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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).

No information available. Germ cell mutagenicity

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

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

Section 13: DISPOSAL CONSIDERATIONS

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Waste from Residues/Unused

Products

Dispose of in accordance with local regulations

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 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

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	New Zealand	Philippin es (PICCS)	Taiwan	TSCA: United States
Aluminum Hydroxide	21645-51- 2	244-492-7	01-211952924 6-39-0016	Y	Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	Y	Y	Y	Α

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

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Section 16: OTHER INFORMATION

Prepared by Huber Engineered Materials Global Regulatory Affairs

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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)

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End of Safety Data Sheet