### **Safety Data Sheet**



#### Micral® 916

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

Issue Date: 01/May/2020 Revision Number: 1.3

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

1.1. Product identifier

Product Name: Micral® 916

Pure substance/mixture Substance

Chemical Name	CAS Number	EC No	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

Company: J.M. Huber Corporation

3100 Cumberland Boulevard, Suite 600

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

MARTINSWERK GmbH 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

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

Information Service)

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### **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

Not classified **Health Hazards** 

Not classified **Environmental Hazard** 

2.2. Label elements

Symbols/Pictograms None

**Signal Word** None

**Hazard Statements** None

**Precautionary Statements** 

Employ good industrial hygiene practice Prevention

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

Storage Keep in a dry place

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. Substance Substance

Chemical Name	CAS Number	EC No	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**

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### 4.1. Description of first aid measures

When in doubt or if symptoms are observed, get medical advice. Ensure that **General Advice** 

medical personnel are aware of the material(s) involved and take precautions to

protect themselves.

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

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.

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

**Notes to Physician** Treat symptomatically.

4.2. Most important symptoms

and effects, both acute and

delayed

Signs and symptoms may include coughing, gasping, choking and difficulty

breathing.

**4.3. Indication of any immediate** Treatment should be symptomatic and supportive.

medical attention and special

treatment needed

### **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

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.

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### **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.

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**, Store away from incompatible materials **including any incompatibilities** 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

**NIOSH** 

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

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

France Not established (Non établi)
France Not established (Non établi)

**Poland** 2.5 mg/m³ (inhalable); 1.2 mg/m³ (respirable)

Russia 6 mg/m³ TWA (aerosol)

Switzerland TWA: 3 mg/m<sup>3</sup>

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

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Recommended monitoring

procedures

Refer also to national guidance documents for information on currently

recommended monitoring procedures

Biological Limit Values: None

Derived No Effect Level (DNEL) 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>

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure controls

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

gloves should be worn.

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

appropriate certified respirators.

Thermal hazards None known.

Hygiene Measures 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

**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 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

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Flash Point:

Evaporation Rate
Flammability (solid, gas)
Flammability (solid, gas)

Not applicable.
Not applicable
Not applicable

Upper flammability limit: Lower flammability limit:

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

Water Solubility Insoluble

**Solubility in other solvents**Partition 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

### **SECTION 10: Stability and reactivity**

**10.1. Reactivity** None

**10.2. Chemical stability** Stable under normal conditions

10.3. Possibility of hazardous

reactions

None under normal processing

10.4. Conditions to avoid Incompatible materials

**10.5. Incompatible materials** Strong acids

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.

Information on Likely Routes of Exposure

**Inhalation** Do not breathe dust

Inhalation of dust may cause irritation of the respiratory system

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

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Dust contact with the eyes can lead to mechanical irritation **Eyes** 

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

**IARC** Not Listed

**Acute Toxicity** Based on available data, the classification criteria are not met

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

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

**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

in vitro Not genotoxic in bacteria and mammalian cell systems. Mutagenicity

in vivo Mutagenicity (micronucleus test) Rat Negative (weight of evidence

approach)

No information available. Germ cell mutagenicity

**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**

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**12.1. Ecotoxicity** 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. Other adverse effects** No information available

### **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**

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

TDG -Canada Not regulated

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DOT Not regulated Not regulated **ADR** RID Not regulated **ADN** 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 Nο

14.6. Special precautions for Not applicable

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**

Pure substance/mixture Substance

Chemical Name	CAS Number	EC No	registrati on	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	-	Philippine s (PICCS)	Taiwan	TSCA: United States
Aluminum Hydroxide	21645-51- 2	244-492-7	number 01-211952 9246-39	Y	Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	Y	Y	Y	А

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

#### Germany

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

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### **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

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 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)

**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.

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**End of Safety Data Sheet**