Safety Data Sheet



Micral® 916

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03 Canadian Workplace Hazardous Material Information System (WHMIS) 2015 Mexico NOM-018-STPS-2000; NOM-018-STPS-2015 Globally Harmonized System (GHS)

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

1.1. Product identifier

Product Name: Micral® 916

Pure substance/mixture Substance

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

Recommended Use Flame retardant.

None known. Uses advised against

1.3. Details of the supplier of the safety data sheet

J.M. Huber Corporation Company:

3100 Cumberland Boulevard, Suite 600

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

www.hubermaterials.com Internet

E-mail hubermaterials@huber.com

1.4. Emergency telephone

number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

OSHA Regulatory Status This material is not considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200)

Not classified **Physical Hazards**

Not classified **Health Hazards**

Environmental Hazard Not classified

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2.2. Label elements

Symbols/Pictograms None

Signal Word None

Hazard Statements 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

IF ON SKIN: Wash with plenty of soap and water Response

Store away from incompatible materials Storage

Disposal Dispose of contents/containers in accordance with local regulations

Additional Information: None.

Hazards not otherwise classified Not classified.

(HNOC)

SECTION 3: Composition/information on ingredients

Pure substance/mixture Substance

| | Chemical Name | CAS Number | TSCA: United States | Canada (DSL) | Mexico | REACH registration number | OSHA Regulatory Status | WHMIS | Weight-% |
|---|--------------------|------------|------------------------|--------------|--------|---------------------------|------------------------------|-------|----------|
| Ī | Aluminum Hydroxide | 21645-51-2 | Α | Υ | Υ | 01-211952924 | Not classified | | 100 |
| - | - | | | | | 6-39-0016 | | | |

Legend

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

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.

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

lenses, if present and easy to do. Continue rinsing.

Skin Contact Wash with plenty of soap and water.

Ingestion Rinse mouth thoroughly with water.

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

comfortable for breathing.

Aspiration hazard Not an expected route of exposure.

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.

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.

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emergency procedures

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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 Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a

containment and cleaning up 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 Minimize dust generation and accumulation. Provide local exhaust ventilation.

handling Handle in accordance with good industrial hygiene and safety practice.

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

including any incompatibilities

7.3. Specific end use(s) Flame retardant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Aluminum Hydroxide

OSHA TWA: 15 mg/m³ Total Dust 5 mg/m³ Respirable Dust

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

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

Canada - BC TWA TWA: 1 mg/m³ (respirable)
Canada - Manitoba - OEL - TWA TWA: 1 mg/m³ (respirable)
Canada - Newfoundland & Labrador - TWA: 1 mg/m³ (respirable)

OEL - TWA

Canada - Nova Scotia - OEL - TWA TWA: 1 mg/m³ (respirable) Canada - Prince Edward Island - OEL - TWA: 1 mg/m³ (respirable)

TWA

Mexico No se ha establecido

Biological Limit Values: None

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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/m³

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure controls

Ensure adequate ventilation, especially in confined areas. Provide a good **Engineering Measures**

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.

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

gloves should be worn.

Respiratory Protection In case of inadequate ventilation wear respiratory protection.

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:

Solid Powder **Physical State** Odor Odorless

Odor Threshold No information available

8.4 - 10.2 5% Water suspension :Ha **Melting point / Freezing point** ca 300 °C / 572 °F (101.3 kPa) 5396 °F (2980 °C) 101.3 kPa **Initial boiling point**

Flash Point: Not applicable. **Evaporation Rate** Not applicable. Flammability (solid, gas) Not applicable

Upper flammability limit:

Lower flammability limit: Not applicable **Vapor Pressure**

Not applicable Vapor Density 2.4 g/cm3, 20° C **Relative Density**

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Insoluble **Water Solubility**

Solubility in other solvents No information available **Partition coefficient** No information available

Autoignition Temperature Not applicable **Decomposition Temperature** 392 °F (200 °C) Not applicable. **Viscosity**

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

Incompatible materials 10.4. Conditions to avoid

Strong acids 10.5. Incompatible materials

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 in high concentration may cause irritation of respiratory system

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

Eyes Dust contact with the eyes can lead to mechanical irritation

Ingestion is not a likely route of exposure Ingestion

Aspiration hazard Not an expected route of exposure.

11.1. Information on toxicological effects

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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.

Respiratory SensitizationNo information available

Serious eye damage/eye

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irritation

Non-irritant Rabbit

Skin Corrosion/Irritation Non-irritant Rabbit

Skin SensitizationBased 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)

Germ cell mutagenicity No information available.

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

12.1. Ecotoxicity Not considered to be harmful to aquatic life.

Aluminum Hydroxide

WGK Classification (AwSV) 5220 WGK: nwg

12.2. Persistence andThe methods for determining biodegradability are not applicable to inorganic

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degradability substances.

12.3. Bioaccumulative potential Not likely to bioaccumulate.

Partition coefficient No information available

Bioconcentration factor

(BCF)

Not available.

No information available. 12.4. Mobility in soil

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 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.

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 DOT Not regulated **ADR** Not regulated RID Not regulated ADN Not regulated Not regulated **IATA** IMDG/IMO Not regulated Not regulated **ICAO**

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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

Global Inventories

Pure substance/mixture Substance

| Chemical Name | CAS Number | EC No | REACH registrati on number | Australia (AICS) | Canada (DSL) | China (IECSC) | Japan | S. Korea (KECL) | Mexico | _ | Philippine s (PICCS) | Taiwan | TSCA: United States |
|-----------------------|----------------|-------|-------------------------------------|---------------------|-----------------|------------------|---------------------------|--------------------|--------|---|-------------------------|--------|---------------------------|
| Aluminum Hydroxide | 21645-51- 2 | | 01-211952 9246-39-0 016 | | Y | Y | (1)-17 (ENCS); ISHL | KE-00980 | Y | Y | Y | Y | Α |

Legend

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

US Federal Regulations

EPA

CERCLA Not listed SARA 304 Not regulated

Aluminum Hydroxide

CERCLA Not listed SARA 311/312 Hazardous Not listed

Categorization

SARAH 302 RQ, Ibs Not listed

CWA (Clean Water Act)

Not regulated

CAA (Clean Air Act)

Not regulated

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U.S. State Right-to-Know Regulations

| Chemical Name | CAS Number | California Proposition 65 | California CPR | Massachusetts | Minnesota | New Jersey | Pennsylvania |
|--------------------|------------|------------------------------|----------------|---------------|-----------|------------|--------------|
| Aluminum Hydroxide | 21645-51-2 | No | | No | No | No | No |

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain any Proposition 65 chemicals

CANADA

WHMIS:

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

SECTION 16: Other information

Huber Engineered Materials (HEM) Global Regulatory Affairs Prepared by

regulatory.affairs@huber.com

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Reason for Version OSHA (Occupational Safety and Health Administration of the US Department of

Labor).

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

International Agency for Research on Cancer (IARC) Abbreviations and acronyms

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