

# **Safety Data Sheet**

#### Micral® AM-550

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

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Micral® AM-550

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** 

**Prevention** None

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None Response

Collect spillage Spills and Leaks

Storage Store in a dry place

**Disposal** Dispose in accordance with local, state and national regulations

**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	EU REACH registration number	Weight-%
Aluminum Hydroxide	21645-51-2	Υ	Not classified.	Α	01-2119529246-39	100

# **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

Ingestion Rinse mouth with water. Do not induce vomiting.

**Notes to Physician** Treat symptomatically

Personal Protective Equipment Wear suitable protective clothing

IF exposed or concerned: Get medical advice/attention For First Aid Responders

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

Avoid dust formation. Avoid breathing dust. Handle in accordance with good Handling

industrial hygiene and safety practice.

Store in a dry area. Keep containers closed and protect from physical damage. Storage

# 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/m<sup>3</sup> (respirable fraction)

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

TWA: 15 mg/m<sup>3</sup> (Total Dust) **OSHA** 

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5 mg/m3 (Respirable Dust)

Ensure adequate ventilation, especially in confined areas **Engineering Measures** 

Provide a good standard of controlled ventilation (10 to 15 air changes per hour)

**Personal Protective Equipment** 

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

**Skin and Body Protection** Wear suitable protective clothing

Impervious gloves **Hand Protection** 

**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

**Environmental Exposure** 

**Controls** 

Dispose of in accordance with local regulations

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

Solid **Physical State** 

Powder

Odorless Odor

**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) **Initial boiling point** 5396 °F (2980 °C) 101.3 kPa

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

Upper flammability limit: Lower flammability limit:

**Vapor Pressure** Not applicable **Vapor Density** Not applicable **Relative Density** 2.4 g/cm3, 20° C 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) **Viscosity** Not applicable.

**Explosive Properties** None

**Oxidizing Properties** Not applicable

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**VOC Content (%)** Not applicable

# **Section 10: STABILITY AND REACTIVITY**

Stable under normal conditions **Stability** 

Conditions to avoid: None known

Strong acids Incompatible materials

**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

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

Inhalation Do not breathe dust

Inhalation of dust may cause irritation of the respiratory system

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

Aluminum Hydroxide

Oral LD50 > 2000 mg/kg Rat

Not Listed IARC

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

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

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

Serious eye damage/eye

irritation

Non-irritant Rabbit

**Respiratory Sensitization** No information available

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

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

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

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

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. Avoid release to the environment.

Persistence/Degradability: The methods for determining biodegradability are not applicable to inorganic

substances.

Not likely to bioaccumulate. **Bioaccumulative Potential** 

Partition coefficient **Bioconcentration factor** 

(BCF)

Not available.

No information available

No information available. Mobility in soil

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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**

Waste from Residues/Unused

**Products** 

Dispose of in accordance with local regulations

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

or disposal.

### **Section 14: TRANSPORT INFORMATION**

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

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

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

#### **Global Inventories**

Chemical Name	CAS Number	EC No	EU REACH registration number	Australia (AIIC)	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	Y	Υ	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	Y	Y	Υ	А

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

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### **Section 16: OTHER INFORMATION**

**Huber Engineered Materials Global Regulatory Affairs** Prepared by

email: regulatory.affairs@huber.com

Reason for Revision GB/T 16483-2008

> GB/T 24774-2009 GB 13690 - 2009 GB/T 17519-2013

Not classified. **GHS Classification** 

**Physical Hazard** Not classified.

**Health Hazard** Not classified.

**Environmental Hazard** Not classified.

**Label Elements** 

None Symbols/Pictograms

Signal Word None

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

IATA (International Air Transport Association) IMDG (International Maritime Dangerous Goods)

IUCLID (International Uniform Chemical Information Database) WHMIS (Workplace Hazardous Materials Information System)

DOT (Department of Transportation)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

TWA (Time-Weighted Average)

CLP (The Classification, Labeling and Packaging of Substances and Mixtures 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)

RQ (Reportable Quantity) (RQ/% in mixture)

STEL (Short Term Exposure Limit) TLV® (Threshold Limit Value) DNEL (Derived No Effect Level)

SVHC (Substances of Very High Concern) BOD (Biochemical oxygen demand)

COD (Chemical oxygen demand)

ICAO (International Civil Aviation Organization) IMDG (International Maritime Dangerous Goods)

SCBA (Self-Contained Breathing Apparatus) Positive Pressure

GHS (Globally Harmonized System)

ADR (European Agreement Concerning the International Carriage of Dangerous Goods by

Road)

RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)

SARA (Superfund Amendments and Reauthorization Act of 1986)

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TSCA (Toxic Substances Control Act)

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**End of Safety Data Sheet**