

Safety Data Sheet

Micral® 632

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

Issue Date 13/Feb/2023 **Revision Number** 1.3.1 Print Date 02/Apr/2025

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Micral® 632

Substance Pure substance/mixture

Aluminum Hydroxide

21645-51-2 **CAS Number**

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/m³ (respirable fraction)

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

TWA: 15 mg/m³ (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)

Mobility in soil

No information available

Not available.

No information available.

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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

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 IARC (International Agency for Research on Cancer)

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