



Micral® 932

**Japan-JIS Z 7253:2019
Occupational Safety and Health Act
GHS (Globally Harmonized System)**

Issue Date 24/Jan/2023
Print Date 15/Oct/2024

Revision Number 1.3
Page 1 of 8

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Micral® 932
Pure substance/mixture	Substance
Aluminum Hydroxide	
CAS Number	21645-51-2
Weight-%	100
Recommended Use	Flame retardant
Uses advised against	None known
Company:	J.M. Huber Corporation 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300
Internet	www.huberadvancedmaterials.com
E-mail	www.huberadvancedmaterials.com/contact
Emergency Telephone Number	CHEMTREC: +1 800 424 9300 or International 1+703-527-3887 +81 03-3560-7316

2. HAZARD IDENTIFICATION

Japan GHS Classification	
Physical Hazards	Not classified.
Health Hazard	Not classified.
Environmental Hazards	Not classified.
GHS label elements	
Symbols/Pictograms	None
Signal Word	None
Hazard statements	Based on available data, the classification criteria are not met.
Precautionary Statements	
Prevention	Do not handle until all safety precautions have been read and understood Employ good industrial hygiene practice Do not breathe dust
Response	IF exposed or concerned: Get medical advice/attention

Safety Data Sheet

Micral® 932

Issue Date 24/Jan/2023

Print Date 15/Oct/2024

Revision Number 1.3

Page 2 of 8

Wash with plenty of soap and water

StorageStore away from incompatible materials.
Keep in a dry place**Disposal**

Dispose of contents/container to an approved waste disposal plant

Additional Information:

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture

Substance

Chemical Name	CAS Number	Japan GHS Classification	Weight-%
Aluminum Hydroxide	21645-51-2	Not classified.	100

4. FIRST AID MEASURES

If inhaled:

Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF ON SKIN:Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse**IF IN EYES:**In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Call a physician if irritation develops and persists**If swallowed:**

Rinse mouth thoroughly with water

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves**Notes to Physician**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing MediaWater spray (fog)
Foam
Dry chemical
Carbon dioxide (CO₂)**Unsuitable Extinguishing Media** Do not use water jetstream**Special hazards arising from the substance or mixture** Avoid dust formation

Safety Data Sheet

Micral® 932

Issue Date 24/Jan/2023

Print Date 15/Oct/2024

Revision Number 1.3

Page 3 of 8

Fire-fighting measures

In case of fire and/or explosion do not breathe fumes
Water mist may be used to cool closed containers
Keep unauthorized personnel away

Special Protective Equipment for Firefighters Wear self-contained breathing apparatus and protective suit

6. ACCIDENTAL RELEASE MEASURES

Protective Equipment and Precautions for Firefighters

Avoid dust formation
Ensure adequate ventilation
Use personal protection recommended in Section 8
Avoid contact with eyes and skin. Wear suitable personal protection equipment.
Keep unauthorized personnel away

Environmental Precautions

Keep out of drains, sewers, ditches and waterways
Disposal considerations
See section 13 for more information

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 Minimize use of water during clean-up
Recommended filter type: High efficiency particulate air filter (HEPA filter)

Other Information

Not applicable

7. HANDLING AND STORAGE

Handling**Technical measures**

Provide adequate ventilation as well as local exhaust at critical locations
Ensure adequate ventilation
Use personal protection equipment
See section 8 for more information

Advice on safe handling

Minimize dust generation and accumulation

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well-ventilated place

Hygiene Measures

Wash hands thoroughly after handling

Storage**Packaging compatibilities**

Keep/store only in original container

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Provide adequate ventilation as well as local exhaust at critical locations

Aluminum Hydroxide

Japan

TWA: 2 mg/m³

Safety Data Sheet

Micral® 932

Issue Date 24/Jan/2023

Print Date 15/Oct/2024

Revision Number 1.3

Page 4 of 8

Engineering Measures Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Respiratory Protection In case of inadequate ventilation wear respiratory protection

Hand protection For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn

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

Skin and Body Protection Wear suitable protective clothing.
Chemical resistant apron.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice
Wash thoroughly after handling
Avoid contact with eyes and skin
Do not breathe dust

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid, Powder
Odor	Odorless
Odor Threshold	No information available
Melting Point / Melting Range	No data available
Boiling Point	No data available
Freezing Point	No information available
Autoignition Temperature	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	No data available
Explosive Properties	None
Vapor Pressure	Not applicable
Water Solubility	Insoluble
Partition coefficient	No data available
Viscosity	Not applicable
Specific Gravity	No data available
Oxidizing Properties	Not applicable
Decomposition Temperature	392 °F (200 °C)
Flash Point	Not applicable.
pH:	8.4 - 10.2 5% Water suspension
Melting point / Freezing point	ca 300 °C / 572 °F (101.3 kPa)
Initial boiling point	5396 °F (2980 °C) 101.3 kPa
Flammability (solid, gas)	Not applicable
Vapor Density	Not applicable
Relative Density	2.4 g/cm ³ , 20° C
Solubility in other solvents	No information available
VOC Content (%)	Not applicable None

10. STABILITY AND REACTIVITY

Reactivity Stable under normal conditions

Safety Data Sheet

Micral® 932

Issue Date 24/Jan/2023

Print Date 15/Oct/2024

Revision Number 1.3

Page 5 of 8

Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	None known
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	None known

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
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
Inhalation LC50	Rat > 2.3 mg/l (Al ₂ O ₃) 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
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.

Safety Data Sheet

Micral® 932**Issue Date** 24/Jan/2023**Print Date** 15/Oct/2024**Revision Number** 1.3**Page 6 of 8**

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.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Persistence and degradability

No data available

Bioaccumulation

No data available.

Mobility in soil

No data available

Hazardous to the ozone layer

No data available

13. DISPOSAL CONSIDERATIONS

Disposal

Dispose of in accordance with federal, state and local regulations

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal

14. TRANSPORT INFORMATION

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

Not regulated

RID

Not regulated

ADN

Not regulated

IATA

Not regulated

IMDG/IMO

Not regulated

ICAO

Not regulated

14.1. UN number

None

Safety Data Sheet

Micral® 932

Issue Date 24/Jan/2023

Print Date 15/Oct/2024

Revision Number 1.3

Page 7 of 8

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 user Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

15. REGULATORY INFORMATION

Global Inventories

Pure substance/mixture Substance

Chemical Name	CAS Number	EC No	EU REACH registration number	Australia (AIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Aluminum Hydroxide	21645-51-2	244-492-7	01-211952 9246-39	Y	Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	Y	Y	Y	A

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

Legend-Inventories

KECL - Korean Existing and Evaluated Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances
 TSCA (Toxic Substances Control Act)
 DSL (Domestic Substance List)
 NDSL (Non-Domestic Substances List)
 Japan - ISHL Notifiable Substances
 ENCS - Japan Existing and New Chemical Substances

16. OTHER INFORMATION

Prepared by

Huber Engineered Materials Global Regulatory Affairs
 email: regulatory.affairs@huber.com

Reason for Revision

This SDS complies with the requirements of JIS Z 7250:2010 and JIS Z 7252:2009 (Japan)

Bibliography

NITE GHS Classified list
 Japan Society for occupational health (2015) recommendation of allowable concentrations, etc.
 ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value

Safety Data Sheet

Micral® 932**Issue Date** 24/Jan/2023**Print Date** 15/Oct/2024**Revision Number** 1.3**Page 8 of 8****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)
ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)
SCBA (Self-Contained Breathing Apparatus) Positive Pressure
PNEC (Predicted No Effect Concentration)
GHS (Globally Harmonized System)
TSCA (Toxic Substances Control Act)

Disclaimer

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End of Safety Data Sheet