



**Martinal® OL-107 LEO**

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

**Issue Date** 13/Feb/2026  
**Print Date** 01/May/2026

**Revision Number** 1.3.1  
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**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>Product Name:</b>	Martinal® OL-107 LEO
<b>Chemical Name</b>	Aluminum Hydroxide
<b>Pure substance/mixture</b>	Substance
<b>Recommended Use</b>	Additive, Flame retardant
<b>Uses advised against</b>	None known
<b>Company:</b>	MARTINSWERK GmbH Kölner Strasse 110 50127 Bergheim Germany Tel. : +49-2271-90.22.78 Fax. : +49-2271-90.27.17
<b>Internet</b>	<a href="http://www.huberadvancedmaterials.com">www.huberadvancedmaterials.com</a>
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<b>Emergency Telephone Number</b>	CHEMTREC: +1 800 424 9300 or International 1+703-527-3887 +81 03-3560-7316

**2. HAZARD IDENTIFICATION**

<b>Japan GHS Classification</b>	
<b>Physical Hazards</b>	Not classified.
<b>Health Hazard</b>	Not classified.
<b>Environmental Hazards</b>	Not classified.
<b>GHS label elements</b>	
<b>Symbols/Pictograms</b>	None
<b>Signal Word</b>	None
<b>Hazard statements</b>	This product is not classified as hazardous according to the UN GHS guideline and labeling is not required
<b>Precautionary Statements</b>	
<b>Prevention</b>	Do not handle until all safety precautions have been read and understood Employ good industrial hygiene practice Do not breathe dust
<b>Response</b>	IF exposed or concerned: Get medical advice/attention

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Wash with plenty of soap and water

**Storage**

Store 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:	Weight-%	Japan	Japan GHS Classification
Aluminum Hydroxide	21645-51-2	>99	(1)-17 (ENCS); ISHL	Not classified.

**Notes**

The above values are not product specifications

## 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

**Most Important Symptoms and Effects, Both Acute and Delayed**

Treat symptomatically

**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 Media**

Water spray (fog)  
Foam  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)

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**Unsuitable Extinguishing Media** Do not use water jetstream

**Special hazards arising from the substance or mixture** Avoid dust formation

**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

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### Aluminum Hydroxide

Japan

TWA: 2 mg/m<sup>3</sup>

#### 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

<b>Physical State</b>	Solid, Powder
<b>Color</b>	White
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available
<b>Melting Point / Melting Range</b>	No data available
<b>Boiling Point</b>	No data available
<b>Freezing Point</b>	No information available
<b>Autoignition Temperature</b>	No data available
<b>Evaporation Rate</b>	Not applicable
<b>Flammability</b>	Not flammable
<b>Explosive Properties</b>	None
<b>Vapor Pressure</b>	Not applicable
<b>Water Solubility</b>	Insoluble
<b>Partition coefficient</b>	Not applicable Product/Substance is inorganic
<b>Viscosity</b>	No data available
<b>Specific Gravity</b>	No data available
<b>Oxidizing Properties</b>	None
<b>Decomposition Temperature</b>	200 °C (392 °F)
<b>Flash Point</b>	Not applicable. Product/Substance is inorganic. Solid.
<b>pH:</b>	+/- 9 ( 10% Water )
<b>Melting point / Freezing point</b>	~ 300 °C / 572 °F (101.3 hPa)
<b>Initial boiling point and boiling range</b>	> 2900 °C / 5252 °F (101.3 hPa)
<b>Relative Vapor Density</b>	Not applicable
<b>Relative Density</b>	+/- 2.42 g/cm <sup>3</sup> (20 °C)
<b>Solubility in other solvents</b>	No information available
<b>Dynamic viscosity</b>	Not applicable Solid

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Other information: No data available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions
<b>Chemical stability</b>	Stable under normal conditions
<b>Possibility of hazardous reactions</b>	None known
<b>Conditions to avoid</b>	Decomposition Temperature. < / =0.3%. ∴ Al <sub>2</sub> O <sub>3</sub> . Water.
<b>Incompatible materials</b>	Strong oxidizing agents
<b>Hazardous decomposition products</b>	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

<b>Inhalation</b>	Do not breathe dust
<b>Skin</b>	Avoid prolonged or repeated contact with skin Contact with dust can cause mechanical irritation or drying of the skin
<b>Eyes</b>	Avoid contact with eyes Dust contact with the eyes can lead to mechanical irritation
<b>Ingestion</b>	Ingestion is not a likely route of exposure
<b>Aspiration hazard</b>	Not an expected route of exposure.
<b>Symptoms</b>	Low hazard for usual industrial or commercial handling

### 11.1. Information on toxicological effects

#### Aluminum Hydroxide

Oral LD50	> 2000 mg/kg Rat
IARC	Not Listed

#### Martinal® OL-107 LEO

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

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

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<b>Respiratory Sensitization</b>	Based on available data, the classification criteria are not met.
<b>Skin Corrosion/Irritation</b>	Based on available data, the classification criteria are not met.
<b>Skin Sensitization</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - Single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - Repeated exposure</b>	Based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

### Aluminum Hydroxide

Aquatic toxicity

Not considered to be harmful to aquatic life

<b>Ecotoxicity</b>	Based on available data, the classification criteria are not met.
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available.
<b>Mobility in soil</b>	No data available
<b>Hazardous to the ozone layer</b>	No data available

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal</b>	Dispose of in accordance with federal, state and local regulations
<b>Contaminated packaging</b>	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)

<b>ADR</b>	Not regulated
<b>RID</b>	Not regulated
<b>ADN</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG/IMO</b>	Not regulated
<b>ICAO</b>	Not regulated

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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 user Not applicable

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

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## 15. REGULATORY INFORMATION

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

#### Poisonous and Deleterious Substances Control Act

Not applicable

#### Industrial Safety and Health Act (ISHA)

Not applicable under the Ordinance on Prevention of Hazards due to Specified Chemical Substances

Not applicable under the Ordinance on Prevention of Organic Solvent Poisoning

Substances requiring name labeling or notification (Designated Hazardous Substances)

Not applicable.

#### PRTR and Promotion of Chemical Management Law:

Not applicable

#### Fire Services Act

Not applicable

#### Japan - Specified Chemical Substances

Class I specified chemical substances

Not regulated.

Class II specified chemical substances

Not regulated.

Monitoring chemical substances

Not regulated.

Priority Assessment Chemical Substances (PACs)

Not regulated.

Reporting Exempted Substances

Not regulated.

#### Global Inventories

##### Pure substance/mixture

##### Substance

Chemical Name	CAS NUMBER:	EC No	EU REACH registration number	Australia (AICS)	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)

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Japan - ISHL Notifiable Substances  
ENCS - Japan Existing and New Chemical Substances

## 16. OTHER INFORMATION

<b>Prepared by</b>	Huber Engineered Materials Global Regulatory Affairs (Email – HEM.HAMRegulatory@huber.com)
<b>Reason for Revision</b>	This SDS complies with the requirements of JIS Z 7252:2019 and JIS Z 7253:2019 (Japan)
<b>Bibliography</b>	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
<b>Abbreviations and acronyms</b>	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)
<b>Disclaimer</b>	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

**End of Safety Data Sheet**