

Safety Data Sheet

Martinal® OL-104C; Martinal® OL-107C

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

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Martinal® OL-104C; Martinal® OL-107C

Chemical Name Aluminum Hydroxide (surface modified)

Pure substance/mixture Mixture

Aluminum Hydroxide

CAS Number 21645-51-2

Weight-% >98

Recommended Use Additive : Flame retardant

Uses advised against No information available

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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

PreventionDo not handle until all safety precautions have been read and understood

Employ good industrial hygiene practice

Do not breathe dust

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Response IF exposed or concerned: Get medical advice/attention

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 Mixture

Chemical Name	CAS Number	Japan GHS Classification	Weight-%
Aluminum Hydroxide	21645-51-2	Not classified.	>98

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

Rinse mouth thoroughly with water If swallowed:

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 Water spray (fog)

Media Foam

Dry chemical

Carbon dioxide (CO2)

Unsuitable Extinguishing Media Do not use water jetstream

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Special hazards arising from the Avoid dust formation

substance or mixture

In case of fire and/or explosion do not breathe fumes Fire-fighting measures

Water mist may be used to cool closed containers

Keep unauthorized personnel away

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

Firefighters

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 exhaustion 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

including any incompatibilities

Conditions for safe storage, Keep containers tightly closed in a cool, well-ventilated place

Wash hands thoroughly after handling **Hygiene Measures**

Storage

Packaging compatibilities Keep/store only in original container

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Provide adequate ventilation as well as local exhaustion at critical locations **Exposure Limits**

Aluminum Hydroxide

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TWA: 2 mg/m³ Japan

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

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

Skin and Body Protection Wear suitable protective clothing.

Chemical resistant apron.

Handle in accordance with good industrial hygiene and safety practice **Hygiene Measures**

> Wash thoroughly after handling Avoid contact with eyes and skin

Do not breathe dust

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid, Powder

White Color Odorless Odor

No information available **Odor Threshold Melting Point / Melting Range** No data available **Boiling Point** No data available

No information available **Freezing Point Autoignition Temperature** No data available **Evaporation Rate** Not applicable

Flammability (solid, gas) No information available

None **Explosive Properties**

Vapor Pressure Not applicable **Water Solubility** Insoluble

Partition coefficient Not applicable Product/Substance is inorganic

No data available **Viscosity Specific Gravity** No data available

Oxidizing Properties None

Decomposition Temperature No data available

Flash Point Not applicable. Product/Substance is inorganic. Solid.

:Ha +/- 9 (10% Water)

Melting point / Freezing point 300 °C / 572 °F (101.3 hPa) > 2900 °C / 5252 °F (101.3 hPa) Initial boiling point and boiling

range

Vapor Density Not applicable

2.42 g/cm³ (20 °C) **Relative Density** +/-Solubility in other solvents No information available Dynamic viscosity Not applicable Solid

Other information: No data available

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10. STABILITY AND REACTIVITY

Reactivity Stable under normal conditions

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

Skin Avoid prolonged or repeated contact with skin

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

Eyes Avoid contact with eyes

Dust contact with the eyes can lead to mechanical irritation

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 (Al2O3) Aerosol Maximum attainable concentration

IARC Not Listed

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

No information available.

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Specific target organ toxicity -

Repeated exposure

No information available.

12. ECOLOGICAL INFORMATION

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

Persistence and degradability No data available

Bioaccumulation No data available.

No data available Mobility in soil

Hazardous to the ozone layer No data available

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local regulations Disposal

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)

IATA Not regulated IMDG/IMO Not regulated 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

15. REGULATORY INFORMATION

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Global Inventories

Pure substance/mixture Mixture

Chemical Name	CAS Number	EC No	EU REACH registrati on number	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico		Philippine s (PICCS)		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	Υ	А

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

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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

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)

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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

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