

Martinal® OL-104 LE; Martinal® OL-107 LE; Martinal® OL-111 LE

**GHS (Globally Harmonized System)** 

Issue Date 14/Feb/2023 Revision Number 1.3.3

Print Date 27/Mar/2023

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name: Martinal® OL-104 LE; Martinal® OL-107 LE; Martinal® OL-111 LE

Pure substance/mixture Substance

Aluminum Hydroxide

**CAS Number** 21645-51-2

EU REACH registration 01-2119529246-39

number

1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Additive: Flame retardant

1.3. Details of the supplier of the safety data sheet

Internet www.cpkelco.com

E-mail hubermaterials@huber.com

1.4. Emergency telephone

number

CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

GHS Classification This product is not classified as hazardous according to the UN GHS guideline

and labeling is not required

Hazards identification

Physical Hazard Not classified

Health Hazards Not classified

Environmental Hazard Not classified

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2.2. Label elements

Symbols/Pictograms None

Signal Word None

Hazard Statement None

**Precautionary Statements** 

**Prevention** Employ good industrial hygiene practice

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

Do not breathe dust

Wear protective gloves/protective clothing/eye protection/face protection

**Response** IF ON SKIN: Wash with plenty of soap and water

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/containers in accordance with local regulations.

Additional Information: None.

### **SECTION 3: Composition/information on ingredients**

Pure substance/mixture Substance

Chemical Name	CAS Number	TSCA: United States	EU REACH registration number		
Aluminum Hydroxide	21645-51-2	Α	01-2119529246-39		

Legend

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

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

**General Advice** When in doubt or if symptoms are observed, get medical advice. Ensure that

medical personnel are aware of the material(s) involved and take precautions to

protect themselves.

Eye Contact In case of eye contact, remove contact lens and rinse immediately with plenty of

water, also under the eyelids, for at least 15 minutes.

**Skin Contact** Wash with plenty of soap and water.

**Inhalation** If breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing.

**Ingestion** Rinse mouth thoroughly with water.

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**Aspiration hazard** Not an expected route of exposure.

**Notes to Physician** Treat symptomatically.

4.2. Most important symptoms and effects, both acute and

delayed

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can

cause mechanical irritation or drying of the skin.

**4.3. Indication of any immediate** Treatment should be symptomatic and supportive.

medical attention and special

treatment needed

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable Extinguishing

Media

Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO2).

#### **Unsuitable Extinguishing Media**

None known.

#### 5.2. Special hazards arising from the substance or mixture

None known.

#### 5.3. Advice for firefighters

#### Special protective

#### equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### Fire-fighting measures

In case of fire and/or explosion do not breathe fumes.

### **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protection recommended in Section 8.

Avoid dust formation. Keep unauthorized personnel away.

For non-emergency personnel Keep unauthorized personnel away.

For emergency responders Keep unauthorized personnel away. Use personal protection recommended in

Section 8.

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**6.2. Environmental precautions** Avoid runoff to waterways and sewers.

**6.3. Methods and material for** Methods for Containment : Prevent further leakage or spillage if safe to do so **containment and cleaning up** Methods for Clean-up : Sweep up and shovel into suitable containers for disposal

6.4. Reference to other sections Section 8: Exposure controls and personal protection. See Section 13 for

additional waste treatment information.

### **SECTION 7: Handling and storage**

**7.1. Precautions for safe**Minimize dust generation and accumulation

handling Provide local exhaust ventilation

Handle in accordance with good industrial hygiene and safety practice

**7.2. Conditions for safe storage**, Store away from incompatible materials **including any incompatibilities** Keep container tightly closed and dry

**7.3. Specific end use(s)** No information available.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Occupational exposure limits

Biological Limit Values None

Recommended monitoring

procedures

Refer also to national guidance documents for information on currently

recommended monitoring procedures

8.2. Exposure controls

Engineering Measures Do not handle until all safety precautions have been read and understood

Ensure adequate ventilation, especially in confined areas

Provide a good standard of controlled ventilation (10 to 15 air changes per hour)
Use exhaust ventilation to keep airborne concentrations below exposure limits

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment

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

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

Thermal hazards None known.

Hygiene Measures Follow general hygiene considerations recognized as common good workplace

practices

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The worker should wash daily at the end of each work shift, and prior to eating,

drinking, smoking, etc

**Environmental Exposure** 

**Controls** 

Dispose of in accordance with local regulations

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Appearance:

Physical State Solid Powder Color White Odor Odorless

Odor Threshold

PH:

No information available
+/- 9 ( 10% Water )

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

range

Freezing Point Not applicable

Flash Point Not applicable Product/Substance is inorganic Solid

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

Upper flammability limit: --Lower flammability limit: ---

Vapor PressureNot applicableVapor DensityNot applicableDensityNo data availableRelative Density+/-2.42 g/cm³ (20 °C)

Water Solubility Insoluble

Solubility in other solvents No information available

Partition coefficient No information available Not applicable Product/Substance is inorganic

Autoignition Temperature

No data available

Decomposition Temperature

200 °C (392 °F)

Viscosity No information available.

Kinematic viscosity

Not applicable

Not applicable Solid

**Explosive Properties**None
Oxidizing Properties
None

Particle Size No information available

VOC Content (%) Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

Not applicable

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# **SECTION 10: Stability and reactivity**

10.1. Reactivity No data available

10.2. Chemical stability Stable under normal conditions

10.3. Possibility of hazardous

reactions

None under normal processing

10.4. Conditions to avoid Decomposition Temperature < / =0.3% : Al<sub>2</sub>O<sub>3</sub> Water

10.5. Incompatible materials None known

10.6. Hazardous decomposition None known

products

### **SECTION 11: Toxicological information**

**General Information** Users are advised to consider national Occupational Exposure Limits or other

equivalent values.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Aluminum Hydroxide

Oral LD50 > 2000 mg/kg Rat

Rat > 2.3 mg/l (Al2O3) Aerosol Maximum attainable concentration Inhalation LC50

**IARC** Not Listed

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

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

Information on Likely Routes of Exposure

Inhalation Do not breathe dust

Ingestion Ingestion is not a likely route of exposure

Avoid prolonged or repeated contact with skin 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

Not an expected route of exposure. **Aspiration hazard** 

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11.2. Information on other hazards

**11.2.1.** Endocrine disrupting This product does not contain any known or suspected endocrine disruptors

properties

**11.2.2. Other information** Not applicable

### **SECTION 12: Ecological information**

**12.1. Toxicity** Not considered to be harmful to aquatic life

Aluminum Hydroxide

WGK Classification (AwSV) 5220 WGK: nwg

**12.2. Persistence and**The methods for determining biodegradability are not applicable to inorganic

degradability substances.

**12.3. Bioaccumulative potential** Not likely to bioaccumulate.

**Bioconcentration factor** 

(BCF)

No data available.

**12.4. Mobility in soil**No information available.

12.5. Results of PBT and vPvB Thi

assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Endocrine disrupting

properties

This product does not contain any known or suspected endocrine disruptors

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**Disposal Methods**Disposal should be in accordance with applicable regional, national and local laws

and regulations.

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

or disposal. Do not reuse container.

Waste codes Waste codes should be assigned by the user based on the application for which

the product was used

**Aluminum Hydroxide** 

European Waste Catalog 060299

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WGK Classification (AwSV) 5220 WGK: nwg

# **SECTION 14: Transport information**

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

TDG -Canada Not regulated DOT Not regulated IATA Not regulated IMDG/IMO Not regulated ICAO Not regulated

14.1. UN number or ID 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. Maritime transport in bulk according to IMO instruments

Not applicable

### **SECTION 15: Regulatory information**

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

#### **Global Inventories**

Pure substance/mixture Substance

Chemical Name	CAS Number	EC No	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)		Philippine s (PICCS)	Taiwan	TSCA: United States
Aluminum Hydroxide	21645-51- 2	244-492-7	Y	Ý	Ý	(1)-17 (ENCS); ISHL	KE-00980	Y	55-1-0259 4	Y	Ý	Y	Ä

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

#### REACH No.

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**EU REACH registration number** 01-2119529246-39 **Turkish KKDIK pre-registration** 05-0000193352-73-0000

Germany

Very low solubility Not considered to be harmful to aquatic life

**Aluminum Hydroxide** 

WGK Classification (AwSV) 5220 WGK: nwg

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

### **SECTION 16: Other information**

Prepared by Huber Engineered Materials Global Regulatory Affairs

email: regulatory.affairs@huber.com.

GHS Classification This product is not classified as hazardous according to the UN GHS guideline

and labeling is not required

Symbols/Pictograms None

Signal Word None

Hazards identification

Physical Hazard Not classified

Health Hazards Not classified

Environmental Hazard Not classified

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)
EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification

DOT (Department of Transportation)

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

TWA (Time-Weighted Average)

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) 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)

Land transport (ADR/RID)

BOD (Biochemical oxygen demand)

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COD (Chemical oxygen demand) ICAO (International Civil Aviation Organization) IMDG (International Maritime Dangerous Goods)

SCBA (Self-Contained Breathing Apparatus) Positive Pressure

PNEC (Predicted No Effect Concentration) GHS (Globally Harmonized System)

**Disclaimer** 

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**End of Safety Data Sheet**