

Safety Data Sheet

Martinal® OL-104C; Martinal® OL-107C

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

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

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

Chemical Name Aluminum Hydroxide (surface modified)

Pure substance/mixture Mixture

Recommended Use Additive : Flame retardant

Uses advised against No information available

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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 Avoid release to the environment

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Observe good industrial hygiene practices.

Avoid breathing dust.

Use mechanical ventilation (dilution and local exhaust) to control exposure

Wash hands thoroughly after handling Response

IF ON SKIN: Wash with plenty of soap and water

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

breathing

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 Mixture

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

For First Aid Responders IF exposed or concerned: Get medical advice/attention

Expected acute symptoms and None known

delayed symptoms

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Section 5: FIRE FIGHTING MEASURES

Flammable Properties None known

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

Environmental Precautions This product does not present any particular risk to the environment. Refer to

applicable national, state and local regulations prior to washing in drain.

Methods for cleaning up Pick up mechanically and / or by rinsing with water.

Avoid dry sweeping and use a sprinkler system or exhaust ventilation to prevent

dust formation.

Other Information: None known

Section 7: HANDLING AND STORAGE

Handling Avoid dust formation. Avoid breathing dust. Handle in accordance with good

industrial hygiene and safety practice.

Storage Store in a dry area. Keep containers closed and protect from physical damage.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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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

Hand Protection Impervious gloves

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 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:

Physical State Solid
Powder
Color White
Odor Odorless

Odor Threshold No information available pH: +/- 9 (10% Water)

Melting point / Freezing point ~ 300 °C / 572 °F (1013 hPa) Initial boiling point and boiling > 2900 °C / 5252 °F (1013 hPa)

range

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

Evaporation Rate Not applicable

Flammability (solid, gas) No information available

Upper flammability limit: Lower flammability limit:

Vapor Pressure Not applicable Vapor Density Not applicable

Relative Density +/- 2.42 g/cm³ (20 °C)

Water Solubility Insoluble

Solubility in other solventsNo information available

Partition coefficient Not applicable Product/Substance is inorganic

Autoignition Temperature
Decomposition Temperature
Dynamic viscosity

No information available
No information available
No applicable Solid

Explosive Properties None **Oxidizing Properties** None

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No data available

Section 10: STABILITY AND REACTIVITY

Stability Stable under normal conditions

Conditions to avoid: None known

Incompatible materials Strong acids

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

Eyes Avoid contact with eyes

Dust contact with the eyes can lead to mechanical irritation

Skin Avoid prolonged or repeated contact with skin

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

Inhalation Do not breathe dust

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

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.

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Specific target organ toxicity -

Single exposure

No information available.

Specific target organ toxicity -

Repeated exposure

No information available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity Very low solubility. Not considered to be harmful to aquatic life.

The methods for determining biodegradability are not applicable to inorganic Persistence/Degradability:

substances.

Bioaccumulative Potential

Not likely to bioaccumulate. Not available

Partition coefficient **Bioconcentration factor**

No data available.

(BCF)

Mobility in soil

No information available.

Results of PBT and vPvB

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

assessment

Other Adverse Effects No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from Residues/Unused

Products

Dispose of in accordance with local regulations

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

or disposal.

Section 14: TRANSPORT INFORMATION

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

DOT Not regulated Not regulated IATA Not regulated IMDG/IMO **ICAO** Not regulated

14.1. UN number None

14.2. UN proper shipping name None

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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

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

Global Inventories

Legend

X / Y: Complies , - / N: Not Listed , Exempt

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Section 16: OTHER INFORMATION

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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 International Agency for Research on Cancer (IARC)

International Air Transport Association (IATA)
International Maritime Dangerous Goods (IMDG)

International Uniform Chemical Information Database (IUCLID)

Workplace Hazardous Materials Information System (WHMIS) status and classification

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)

The Classification, Labeling and Packaging of Substances and Mixtures (CLP) 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)

Reportable Quantity (RQ) (RQ/% in mixture)

STEL - Short Term Exposure Limit TLV® - Threshold Limit Value Derived No Effect Level (DNEL)

SVHC: Substances of Very High Concern for Authorization:

Land transport (ADR/RID)

Biochemical oxygen demand (BOD) Chemical oxygen demand (COD)

ICAO (air)

(IMDG) International Maritime Dangerous Goods

Positive Pressure Self-Contained Breathing Apparatus (SCBA)

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

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End of Safety Data Sheet