

#### Martinal® OL-104C; Martinal® OL-107C

Japan-JIS Z 7253:2012 Occupational Safety and Health Act Globally Harmonized System (GHS)

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1. PRO	DUCT 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 Company:	No information available MARTINSWERK GmbH Kölner Strasse 110 50127 Bergheim Germany Tel. : +49-2271-90.22.78 Fax. : +49-2271-90.27.17
Internet	www.hubermaterials.com
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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

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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

Mixture

# 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 Aide	r 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 (CO2)	
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	

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Special Protective Equipment for Firefighters

**Respiratory Protection** 

Hand protection

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 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
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. EXPOS	URE CONTROLS/PERSONAL PROTECTION
Exposure Limits	Provide adequate ventilation as well as local exhaustion at critical locations
Engineering Measures Personal Protective Equipment	Ensure adequate ventilation, especially in confined areas

In case of inadequate ventilation wear respiratory protection

For operations where prolonged or repeated skin contact may occur, impervious

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	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

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/cm <sup>3</sup> (20 °C)
Water Solubility	Insoluble
Solubility in other solvents	No information available Not applicable Product/Substance is inorganic No
	information available
Dynamic viscosity	Not applicable Solid
Explosive Properties	None
Oxidizing Properties	None
Other information:	No data available

# **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	None known

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products			
1	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			
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.		
Specific target organ toxicity - Repeated exposure	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

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#### **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
ICAO	Not regulated

- 14.1. UN number None
- 14.2. UN proper shipping name None
- 14.3. Transport hazard class(es) None

14.4. Packing groupNone

- 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**

#### **Global Inventories**

#### Pure substance/mixture Mixture

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

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**

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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
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 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 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)
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