## **Safety Data Sheet**



#### Martinal® TM-2650

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

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## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Martinal® TM-2650

Chemical Name Aluminum Hydroxide

Pure substance/mixture Mixture

<u>Aluminum Hydroxide</u>

**CAS Number** 21645-51-2

Weight-%

Surface Treatment

CAS Number - 1-2

Recommended Use Flame retardant Smoke suppressant

Uses advised against None known

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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

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Signal Word None

**Precautionary Statements** 

**Prevention** None

Response None

Spills and Leaks Collect spillage

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

Chemical Name	CAS Number	China (IECSC)	China classification	TSCA: United States	EU REACH registration number	Weight-%
Aluminum Hydroxide	21645-51-2	Υ	Not classified	Α	01-2119529246-39	-
Surface Treatment	-	Y		Α	Registered	1-2

## **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

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Expected acute symptoms and None known

delayed symptoms

## **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

Aluminum Hydroxide

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**ACGIH** TLV/TWA 8-hr: 1 mg/m<sup>3</sup> (respirable fraction)

NIOSH TWA: 5 mg/m³ (respirable dust); 10 mg/m³ TWA (total dust)

TWA: 15 mg/m3 Total Dust **OSHA** 

5 mg/m3 Respirable Dust

**Engineering Measures** Ensure adequate ventilation, especially in confined areas

Provide a good standard of controlled ventilation (10 to 15 air changes per hour)

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 Color White Odor Odorless

No information available **Odor Threshold** 

Not available pH: Melting point / Freezing point Not applicable

**Boiling Point** No information available Flash Point: Non-combustible. **Evaporation Rate** Not applicable Not applicable Flammability (solid, gas)

**Upper flammability limit:** 

**Oxidizing Properties** 

Lower flammability limit:

**Vapor Pressure** Not applicable **Vapor Density** Not applicable **Relative Density** 2.4 g/cm3, 20° C

**Water Solubility** Insoluble

Solubility in other solvents No information available

Not applicable Not applicable Product/Substance is inorganic **Partition coefficient** 

Not oxidizing

**Autoignition Temperature** Not applicable 200 °C (392 °F) **Decomposition Temperature** Not applicable. Viscosity **Explosive Properties** Not applicable

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VOC Content (%) Not applicable

## **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 contact with skin and clothing

Prolonged exposure may cause skin irritation

**Inhalation** Avoid inhalation of the product

**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

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

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

**Chronic Effects** 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

**Respiratory Sensitization** Based on available data, the classification criteria are not met

**Skin Corrosion/Irritation** Prolonged or repeated contact may dry skin and cause irritation

**Skin Sensitization** Based on available data, the classification criteria are not met

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed

by OSHA, IARC or NTP.

Target Organ Effects No information available.

Specific target organ toxicity -

Single exposure

No information available.

Specific target organ toxicity -

Repeated exposure

No information available.

Mixture versus substance

information

No information available.

### **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** Not considered to be harmful to aquatic life.

Persistence/Degradability: Not readily biodegradable.

**Bioaccumulative Potential** No data available.

Partition coefficient
Bioconcentration factor

(BCF)

Not applicable Not available.

Mobility in soil None.

Results of PBT and vPvB

assessment

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

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Other Adverse Effects None known

## **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 ADR Not regulated RID Not regulated ADN Not regulated IATA Not regulated IMDG/IMO 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 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

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#### **Global Inventories**

Chemical Name	CAS Number	EC No	EU REACH registration number	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippin es (PICCS)	Taiwan	TSCA: United States
Aluminum Hydroxide	21645-51- 2	244-492-7	01-211952924 6-39	Y	Υ	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	Y	Y	Υ	Α
Surface Treatment	-	Y	Registered	Y	Y	Y	Y	Y	Y	Y	Y	Y	А

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

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## **Section 16: OTHER INFORMATION**

Prepared by Huber Engineered Materials Global Regulatory Affairs

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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 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)

SCBA (Self-Contained Breathing Apparatus) Positive Pressure

GHS (Globally Harmonized System)

ADR (European Agreement Concerning the International Carriage of Dangerous Goods by

Road)

RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)

SARA (Superfund Amendments and Reauthorization Act of 1986)

TSCA (Toxic Substances Control Act)

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**End of Safety Data Sheet**