Safety Data Sheet



Martinal® TM-3719

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-3719

Chemical Name Aluminum Hydroxide

Pure substance/mixture Mixture

Aluminum Hvdroxide

CAS Number 21645-51-2

Weight-%

Surface treatment

CAS Number Weight-% 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

Not classified **Physical Hazard**

Health Hazard Not classified

Not classified **Environmental Hazard**

Label Elements

Symbols/Pictograms None

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Signal Word None

Precautionary Statements

Employ good industrial hygiene practice Prevention

Wash hands thoroughly after handling

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

> lenses, if present and easy to do. Continue rinsing IF ON SKIN: Wash with plenty of soap and water

Collect spillage Spills and Leaks

Store in a dry place Storage

Store away from incompatible materials.

Disposal Dispose in accordance with local, state and national regulations

General Advice None 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

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-%
Ī	Aluminum Hydroxide	21645-51-2	Υ	Not classified	Α	01-2119529246-39	=
[Surface treatment	-	Y		A	Registered	1-2

Section 4: FIRST AID MEASURES

None When in doubt or if symptoms are observed, get medical advice Ensure that **General Advice**

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

protect themselves

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. If irritation persists, call a physician

Skin Contact Wash skin with soap and water

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

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breathing

Rinse mouth with water. Do not induce vomiting. Ingestion

Treat symptomatically **Notes to Physician**

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

Section 5: FIRE FIGHTING MEASURES

Flammable Properties None known

Suitable Extinguishing Media Water spray (fog)

Foam

Dry chemical

Carbon dioxide (CO2)

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 Ensure adequate ventilation

Use personal protection recommended in Section 8

Avoid dust formation

Keep unauthorized personnel away

Environmental Precautions Avoid runoff to waterways and sewers

Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a Methods for cleaning up

vacuum to collect dust

Small Spill: Vacuum or sweep material and place in a disposal container

Other Information: None known

Section 7: HANDLING AND STORAGE

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Handling Minimize dust generation and accumulation. Provide local exhaust ventilation.

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

ACGIH TLV/TWA 8-hr: 1 mg/m³ (respirable fraction)

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

OSHA TWA: 15 mg/m³ Total Dust 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

Odor Threshold No information available

pH: Not availableMelting point / Freezing point Not applicable

Boiling Point

Flash Point

Evaporation Rate

Flammability (solid, gas)

Upper flammability limit:

No information available
Non-combustible.

Not applicable
Not applicable

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Lower flammability limit:

Vapor PressureNot applicableVapor DensityNot applicableRelative Density2.4 g/cm3, 20° C

Water Solubility Insoluble

Solubility in other solvents No information available

Partition coefficient Not applicable Not applicable Product/Substance is inorganic

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

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

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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

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.

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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.

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

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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

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	Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	Y	Y	Y	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