

Safety Data Sheet

Martinal® ONS

According to WHS Act and the Work Health and Safety Regulations (theWHS Regulations), Section 274.

New Zealand HSNO Chemical Classification

GHS (Globally Harmonized System)

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SECTION 1: Identification: Product identifier and chemical identity

1.1. Product identifier

Product Name: Martinal® ONS

Pure substance/mixture Substance

Aluminum Hydroxide

CAS Number 21645-51-2

Weight-% >99

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

Company: J.M. Huber Corporation

3100 Cumberland Boulevard, Suite 600

Atlanta, GA 30339 USA Tel: +1 678 247-7300

Internet www.hubermaterials.com

E-mail hubermaterials@huber.com

1.4. Emergency telephone CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

number In Asia Pacific: +65 6491 9100

SECTION 2: Hazard(s) Identification

2.1. Classification of the substance or mixture

Physical Hazards Not classified

Health Hazards Not classified

Environmental Hazards Not classified

Symbols/Pictograms None

Signal Word None

Hazard Statements None

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Precautionary Statements

Prevention Employ good industrial hygiene practice

Wash hands thoroughly after handling

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

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

Storage Keep in a dry place

Store away from incompatible materials

Disposal Dispose of contents/containers in accordance with local regulations

Additional Information: None

Hazards not otherwise classified Not classified.

(HNOC)

SECTION 3: Composition and Information on Ingredients

Pure substance/mixture Substance

Chemical Name	CAS Number	Australia (AIIC)	New Zealand	Hazardous Substances	TSCA: United States	REACH registration number	Weight-%
Aluminum Hydroxid	e 21645-51-2	Y	Y	Not classified	А	01-2119529246- 39	>99

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.

medical attention and special

treatment needed

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing

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.

6.2. Environmental precautions Avoid runoff to waterways and sewers.

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6.3. Methods and material for Methods for Containment : Prevent further leakage or spillage if safe to do so 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

handling

Minimize dust generation and accumulation

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 and personal protection

8.1. Control parameters

Occupational exposure limits

Aluminum Hydroxide

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

OSHA TWA: 15 mg/m³ Total Dust 5 mg/m³ Respirable Dust

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.

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

gloves should be worn. Wear suitable gloves tested to EN 374.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

Recommended filter type:

(FFP2) (FFP3)

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Thermal hazards None known.

Hygiene Measures Follow general hygiene considerations recognized as common good workplace

practices

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 No information available pH: +/- 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

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

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

Upper flammability limit:

Lower flammability limit:

Vapor PressureNot applicableVapor DensityNot applicable

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

Water Solubility Insoluble

Solubility in other solvents No information available

Partition coefficient Not applicable Product/Substance is inorganic

Decomposition Temperature 200 °C (392 °F) **Dynamic viscosity** Not applicable Solid

Explosive Properties None Oxidizing Properties None

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity No data available

10.2. Chemical stability Stable under normal conditions

10.3. Possibility of hazardous None under normal processing

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reactions

10.4. Conditions to avoid Decomposition Temperature < / =0.3% : Al₂ O₃ 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.

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.

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

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

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

SECTION 12: Ecological information

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

Aluminum Hydroxide

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WGK Classification (AwSV) 5220 WGK: nwg

12.2. Persistence andThe methods for determining biodegradability are not applicable to inorganic

degradability substances.

12.3. Bioaccumulative potential Not likely to bioaccumulate.

Bioconcentration factor No data

(BCF)

No data available.

12.4. Mobility in soilNo information available.

assessment

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

12.6. Other adverse effects No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

12.5. Results of PBT and vPvB

Disposal MethodsDisposal 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

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

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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

Global Inventories

Pure substance/mixture Substance

	Chemical Name	CAS Number	Australia (AIIC)	Canada (DSL)	China (IECSC)	REACH registrati	EC No	Japan	S. Korea (KECL)	Mexico	-	Philippine s (PICCS)		TSCA: United
						on								States
L						number								
Γ	Aluminum	21645-51-	Υ	Υ	Υ	01-211952	244-492-7	(1)-17	KE-00980	Y	Υ	Y	Υ	Α
-	Hydroxide	2				9246-39		(ENCS);						
								ISHL						

Legend

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

SECTION 16: Other information

Prepared by **Huber Engineered Materials Global Regulatory Affairs**

email: regulatory.affairs@huber.com

According to WHS Act and the Work Health and Safety Regulations (theWHS Reason for Revision

Regulations), Section 274. New Zealand HSNO Chemical Classification.

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

and labeling is not required

Hazards identification

Physical Hazards Not classified

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Health Hazards Not classified

Environmental Hazards Not classified

Symbols/Pictograms None

Signal Word None.

Hazard Statements None.

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

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)

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

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

SCBA (Self-Contained Breathing Apparatus) Positive Pressure

PNEC (Predicted No Effect Concentration)
GHS (Globally Harmonized System)
TSCA (Toxic Substances Control Act)

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