

Safety Data Sheet

Martinal® ONS

GHS (Globally Harmonized System)

Issue Date: 19/Aug/2021 Revision Number: 1.3.1

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name: Martinal® ONS

Pure substance/mixture Substance

Chemical Name	CAS Number	REACH registration number	TSCA: United States	GHS Classification	Weight-%	
Aluminum Hydroxide	21645-51-2	01-2119529246-39	А	Not classified.	>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: MARTINSWERK GmbH

Kölner Strasse 110 50127 Bergheim

Germany

Tel.: +49-2271-90.22.78 Fax.: +49-2271-90.27.17

Internet www.hubermaterials.com

E-mail hubermaterials@huber.com

1.4. Emergency telephone

number

CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

Poison control center phone

number

National Anti-Poison Center UK: +44 844 892 0111 (National Poisons

Information Service)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

and labeling is not required

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Hazards identification

Not classified. **Physical Hazard**

Not classified **Health Hazards**

Environmental Hazard Not classified.

2.2. Label elements

Symbols/Pictograms None

Signal Word None

Precautionary Statements

Prevention Employ good industrial hygiene practice

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

Keep in a dry place. Store away from incompatible materials. Storage

Dispose of contents/containers in accordance with local regulations. Disposal

Additional Information: None.

2.3. Other hazards No information available.

SECTION 3: Composition/information on ingredients

Pure substance/mixture Substance

Chemical Name	CAS Number	REACH registration number	GHS Classification	Weight-%	
Aluminum Hydroxide	21645-51-2	01-2119529246-39	Not classified.	>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.

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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.

Not an expected route of exposure. **Aspiration hazard**

Notes to Physician Treat symptomatically.

4.2. Most important symptoms and effects, both acute and

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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

Media

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

Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid dust formation. Keep unauthorized personnel away.

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emergency procedures

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.

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

No information available. 7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

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

Aluminum Hydroxide

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

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

Mexico Not established

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

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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

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 $\sim 300 \, ^{\circ}\text{C} \, / \, 572 \, ^{\circ}\text{F} \, (101.3 \, \text{hPa})$ Initial boiling point and boiling $> 2900 \, ^{\circ}\text{C} \, / \, 5252 \, ^{\circ}\text{F} \, (101.3 \, \text{hPa})$

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

reactions

None under normal processing

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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

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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

WGK Classification (AwSV) 5220 WGK: nwg

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12.2. Persistence and

The methods for determining biodegradability are not applicable to inorganic substances.

degradability

12.3. Bioaccumulative potential Not likely to bioaccumulate.

Bioconcentration factor

(BCF)

No data available.

12.4. Mobility in soil No information available.

12.5. Results of PBT and vPvB

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

Disposal Methods Disposal 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

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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	EC No	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)		Philippine s (PICCS)	Taiwan	TSCA: United States
Aluminum Hydroxide	21645-51- 2	244-492-7	Y	Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	55-1-0259 4	Y	Y	Υ	А

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

REACH No.

Aluminum Hydroxide

<u>Germany</u>

Very low solubility Not considered to be harmful to aquatic life

Aluminum Hydroxide

WGK Classification (AwSV) 5220 WGK: nwg

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

SECTION 16: Other information

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email: regulatory.affairs@huber.com.

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

and labeling is not required

Symbols/Pictograms None

Signal Word None

Hazard Statements None

Hazards identification

Physical Hazard Not classified

Health Hazards Not classified

Environmental Hazard Not classified

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

GHS (Globally Harmonized System)

SARA (Superfund Amendments and Reauthorization Act of 1986)

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.

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