

## **Safety Data Sheet**

### Martinal® ONS

**GHS (Globally Harmonized System)** 

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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

<u>Aluminum Hydroxide</u>

**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: 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

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

GHS Classification Not a hazardous substance or mixture according to the Globally Harmonized

System (GHS)

Hazards identification

Physical Hazard Not classified

Health Hazards Not classified

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Environmental Hazard Not classified

2.2. Label elements

Symbols/Pictograms None

Signal Word None

Hazard Statements None

**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.

**2.3. Other hazards**No information available.

# **SECTION 3: Composition/information on ingredients**

Pure substance/mixture Substance

Chemical Name	CAS Number	TSCA: United States		REACH registration number	GHS Classificatio n	Weight-%
Aluminum Hydroxide	21645-51-2	Α	244-492-7	01-211952 9246-39.	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.

**Skin Contact** Wash with plenty of soap and water.

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Rinse mouth thoroughly with water. Ingestion

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing.

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

4.2. Most important symptoms and effects, both acute and

Inhalation of dust may cause irritation of the respiratory system. Eye irritation.

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

medical attention and special

treatment needed

delayed

## **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.

Flammable Properties None known.

5.2. Special hazards arising from None known.

the substance or mixture

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.

Keep unauthorized personnel away. Use personal protection recommended in For emergency responders

Section 8.

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**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 Methods for Clean-up: Sweep up and shovel into suitable containers for disposal containment and cleaning up

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.

including any incompatibilities

**7.2. Conditions for safe storage.** Store away from incompatible materials. Keep container tightly closed and dry.

7.3. Specific end use(s)

No information available.

# **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

Occupational exposure limits

Aluminum Hydroxide

**ACGIH** 

OSHA

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

TWA: 15 mg/m3 Total Dust 5 mg/m<sup>3</sup> Respirable Dust

**Biological Limit Values:** None

**Recommended monitoring** 

procedures

Refer also to national guidance documents for information on currently

recommended monitoring procedures

DNEL (Derived No Effect Level) No information available

**PNEC (Predicted No Effect** 

Concentration)

No information available

8.2. Exposure controls

Do not handle until all safety precautions have been read and understood **Engineering Measures** 

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

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Personal protective equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Wear suitable protective clothing.

**Hand Protection** Wear suitable gloves.

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.

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

Physical State Solid. Powder.

**Color** White

**Odor** Odorless

Odor Threshold No information available

**pH:** +/- 9, (, 10%, Water, )

Melting Point / Melting Range Not applicable

Boiling Point Not applicable

Flash Point: Not applicable

Product/Substance is inorganic

Solid

**Evaporation Rate** Not applicable

Flammability (solid, gas) Not flammable

Vapor Pressure Not applicable

Vapor Density Not applicable

Solubility in other solvents

**Water Solubility** 

No information available

Insoluble

Partition coefficient No information available

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None **Explosive Properties** 

**Oxidizing Properties** None

200 °C (392 °F) **Decomposition Temperature** 

## **SECTION 10: Stability and reactivity**

No data available 10.1. Reactivity

10.2. Chemical stability Stable under normal conditions

10.3. Possibility of hazardous

reactions

None under normal processing

10.4. Conditions to avoid Decomposition Temperature. < / =0.3%. :. Al<sub>2</sub> O<sub>3</sub>. 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 is not a likely route of exposure Ingestion

**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

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

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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 - 21645-51-2

WGK Classification (AwSV) 5220 WGK: nwg

12.2. Persistence and

degradability

The methods for determining biodegradability are not applicable to inorganic

substances.

**12.3. Bioaccumulative potential** Not likely to bioaccumulate.

Partition coefficient Not available.

**Bioconcentration factor** 

(BCF)

No data available.

No information available. 12.4. Mobility in soil

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

**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

Disposal should be in accordance with applicable regional, national and local laws **Disposal Methods** 

and regulations

Aluminum Hydroxide - 21645-51-2

European Waste Catalog 060299

# **SECTION 14: Transport information**

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**DOT** 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

#### **Global Inventories**

Chemical Name	CAS Number	EC No	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

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

**Reason for Revision** GHS (Globally Harmonized System).

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

and labeling is not required

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Labeling

Symbols/Pictograms None

None Signal Word

**Hazard Statements** None

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

IARC (International Agency for Research on Cancer) Abbreviations and acronyms

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** 

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**End of Safety Data Sheet**