

Safety Data Sheet

HUBER MARTINSWERK

Martinal® ON-310S; Martinal® ON-313S; Martinal® ON-320; Martinal®, ON-904; Martinal® ON-906; Martinal® ON-908; Martinal® ON-921; Martinal® ON-935

GHS (Globally Harmonized System)

Issue Date 19/Aug/2021 Print Date 12/Nov/2021 Revision Number 1.3.2

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

1.1. Product identifier Product Name:

Martinal® ON-310S; Martinal® ON-313S; Martinal® ON-320; Martinal®, ON-904; Martinal® ON-906; Martinal® ON-908; Martinal® ON-921; Martinal® ON-935

Pure substance/mixture Substance

Chemical Name	CAS Number	EU REACH registration number	TSCA: United States	GHS Classification	Weight-%
Aluminum Hydroxide	21645-51-2	01-2119529246-39	A	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

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	and labeling is not required
Hazards identification	
Physical Hazard	Not classified.
Health Hazards	Not classified
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
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	EU 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.

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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.
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.
4.3. Indication of any immediate medical attention and special treatment needed	e 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

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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.
6.3. Methods and material for containment and cleaning up	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
	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

Exposure Limits	Provide adequate ventilation as well as local exhaustion at critical locations
<u>Aluminum Hydroxide</u> ACGIH OSHA Mexico	TLV/TWA 8-hr: 1 mg/m ³ (respirable fraction) TWA: 15 mg/m ³ Total Dust 5 mg/m ³ Respirable Dust 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)

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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

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 Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	+/- 2.42 g/cm ³ (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

No data available

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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% : $AI_2 O_3$ Water	
10.5. Incompatible materials	None known	
10.6. Hazardous decomposition products	None known	

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 Inhalation LC50 IARC	> 2000 mg/kg Rat Rat > 2.3 mg/l (Al2O3) Aerosol Maximum attainable concentration 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

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12.1. Ecotoxicity	Very low solubility. Not considered to be harmful to aquatic life.
<u>Aluminum Hydroxide</u> 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.
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
<u>Aluminum Hydroxide</u> European Waste Catalog WGK Classification (AwSV)	060299 5220 WGK: nwg

SECTION 14: Transport information

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TDG -Canada DOT	Not regulated 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 user	Not applicable

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)		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	Y	A

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

REACH No.

Aluminum Hydroxide

EU REACH registration number01-2119529246-39Turkish KKDIK pre-registration05-0000193352-73-0000

<u>Germany</u>

Very low solubility Not considered to be harmful to aquatic life

Aluminum Hydroxide	
WGK Classification (AwSV)	5220 WGK: nwg

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15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

SECTION 16: Other information

Prepared by	Huber Engineered Materials Global Regulatory Affairs 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 Health Hazards Environmental Hazard	Not classified Not classified 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 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 Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (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)			

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SARA (Superfund Amendments and Reauthorization Act of 1986) TSCA (Toxic Substances Control Act)

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End of Safety Data Sheet