

MoldX® P12

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 COMMISSION REGULATION (EU) No. 2020/878

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

1.1. Product identifier

Product Name: MoldX® P12

Pure substance/mixture Substance

Chemical Name	CAS Number	EC No	EU REACH registration number	(CLP) Regulation (EC 1272/2008)	Weight-%
Aluminum Hydroxide	21645-51-2	244-492-7	01-2119529246-39	Not classified	100

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	Flame retardant
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Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Manufacturer	MARTINSWERK GmbH Kölner Strasse 110 50127 Bergheim Germany : +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

(CLP) Regulation (EC 1272/2008) Not classified

Hazards identification Physical Hazard

Not classified

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Health	n Hazards	Not classified
Envir	onmental Hazard	Not classified
2.2. Labe	l elements	
Symb	ols/Pictograms	None
Signa	l Word	None
Hazar	d Statements	None
Precautio	onary Statements	
Preve	ntion	Employ good industrial hygiene practice Wash hands thoroughly after handling
Respo	onse	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
Stora	ge	Keep in a dry place Store away from incompatible materials
Dispo	sal	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Additiona	al Information:	None.
2.3. Othe	r hazards	No information available.

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance

	Chemical Name	CAS Number	EC No	EU REACH registration number	(CLP) Regulation (EC 1272/2008)	Annex	Weight-%
[Aluminum Hydroxide	21645-51-2	244-492-7	01-2119529246-39	Not classified		100

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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	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	Signs and symptoms may include coughing, gasping, choking and difficulty breathing.
4.3. Indication of any immediate medical attention and special	Treatment should be symptomatic and supportive.

treatment needed

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.	
6.3. Methods and material for containment and cleaning up	Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust Small Spill: Vacuum or sweep material and place in a disposal container	
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)	Flame retardant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Aluminum Hydroxide ACGIH OSHA NIOSH France France Poland Switzerland United Kingdom	TLV/TWA 8-hr: 1 mg/m ³ (respirable fraction) TWA: 15 mg/m ³ Total Dust 5 mg/m ³ Respirable Dust TWA: 5 mg/m ³ (respirable dust); 10 mg/m ³ TWA (total dust) Not established (Non établi) Not established (Non établi) 2.5 mg/m ³ (inhalable); 1.2 mg/m ³ (respirable) TWA: 3 mg/m ³ 10 mg.m-3 (inhalable); 4 mg.m-3 (respirable)
Recommended monitoring procedures	Refer also to national guidance documents for information on currently recommended monitoring procedures
Biological Limit Values	None
DNEL (Derived No Effect Level)	Consumer - oral, long-term - local and systemic 4.74 mg/kg bw/day Worker - inhalative, long-term - local and systemic 10.74 mg/m ³

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PNEC (Predicted No Effect Concentration) No information available

8.2. Exposure controls	
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.
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:

Appearance.	
Physical State	Solid Powder
Odor	Odorless
Odor Threshold	No information available
pH:	8.4 - 10.2 5% Water suspension
Melting point / Freezing point	ca 300 °C / 572 °F (101.3 kPa)
Initial boiling point	5396 °F (2980 °C) 101.3 kPa
Freezing Point	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable.
Flammability (solid, gas)	Not applicable
Flammability (solid, gas)	Not applicable
Upper flammability limit:	
Lower flammability limit:	
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Vapor Density	Not applicable
Density	No data available
Relative Density	2.4 g/cm3, 20° C
Water Solubility	Insoluble
Solubility in other solvents	No information available
Partition coefficient	No information available

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Autoignition TemperatureNot aDecomposition Temperature392ViscosityNot aKinematic viscosityNot aExplosive PropertiesNot aOxidizing PropertiesNot aParticle SizeNot aVOC Content (%)Not a

Not applicable 392 °F (200 °C) Not applicable. Not applicable None Not applicable No information available Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes Not applicable

9.2.2. Other safety characteristics Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity	None
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	None under normal processing
10.4. Conditions to avoid	Incompatible materials
10.5. Incompatible materials	Strong acids
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.				
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008					
Aluminum Hydroxide Oral LD50 Inhalation LC50 IARC	> 2000 mg/kg Rat Rat > 2.3 mg/l (Al2O3) Aerosol Maximum attainable concentration Not Listed				

Acute Toxicity

Based on available data, the classification criteria are not met

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Chronic Toxicity	Based on available data, the classification criteria are not met.
Chronic Effects	Based on available data, the classification criteria are not met.
Respiratory Sensitization	No information available
Serious eye damage/eye irritation	Non-irritant Rabbit
Skin Corrosion/Irritation	Non-irritant Rabbit
Skin Sensitization	Based on available data, the classification criteria are not met Not a skin sensitizer Guinea pig
Mutagenicity	in vitro Not genotoxic in bacteria and mammalian cell systems. in vivo Mutagenicity (micronucleus test) Rat Negative (weight of evidence approach)
Germ cell mutagenicity	No information available.
Reproductive Effects	Based on available data, the classification criteria are not met.
Reproductive Toxicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - Single exposure	Not classified.
Specific target organ toxicity - Repeated exposure	No information available.
Mixture versus substance	No information available
information Information on Likely Routes of	f Exposure
Inhalation	Do not breathe dust Inhalation of dust may cause irritation of the respiratory system
Ingestion	Ingestion is not a likely route of exposure
Skin	Contact with dust can cause mechanical irritation or drying of the skin
Eyes	Dust contact with the eyes can lead to mechanical irritation
Aspiration hazard	Not an expected route of exposure.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties	This product does not contain any known or suspected endocrine disruptors

11.2.2. Other information Not applicable

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SECTION 12: Ecological information

12.1. Toxicity	Not considered to be harmful to aquatic life					
Aluminum Hydroxide 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	No information available					
Bioconcentration factor (BCF)	Not 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. Endocrine disrupting properties	This product does not contain any known or suspected endocrine disruptors					

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.
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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Mode of Transportation (Road, Water, Air, Rail)

TDG -Canada	Not regulated
DOT	Not regulated
ADR	Not regulated
RID	Not regulated
ADN	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

14.1. UN number or ID 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. Maritime transport in bulk according to IMO instruments 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	Y	A

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

REACH No.

Aluminum Hydroxide

EU REACH registration number 01-2119529246-39 Turkish KKDIK pre-registration 05-0000193352-73-0000

Germany

Not considered to be harmful to aquatic life

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Aluminum Hydroxide WGK Classification (AwSV)

vSV) 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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Prepared by	Huber Engineered Materials Global Regulatory Affairs email: regulatory.affairs@huber.com.						
(CLP) Regulation (EC 1272/2008	3) Not classified						
Labeling							
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) IUCLID (International Uniform Chemical Information Database) WHMIS (Workplace Hazardous Materials Information System) 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) 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) COD (Chemical oxygen demand) ICAO (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 (International Maritime Dangerous Goods) DOT (Department of Transport Association) IMDG (International Maritime Dangerous Goods) DOT (Department of Transport Association) IMDG (International Maritime Dangerous Goods) DOT (Department of Transportation) TDG (Transport of Dangerous Goods) Canada PNEC (Predicted No Effect Concentration) SCBA (Self-Contained Breathing Apparatus) Positive Pressure						

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GHS (Globally Harmonized System) TSCA (Toxic Substances Control Act)

Disclaimer

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End of Safety Data Sheet