ADVANCED **MATERIALS**

Safety Data Sheet

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

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

Flame retardant **Recommended Use**

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

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

www.huberadvancedmaterials.com Internet

www.huberadvancedmaterials.com/contact **Contact E-Mail**

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

Not classified. **Physical Hazard Health Hazards** Not classified.

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Not classified. **Environmental Hazard**

2.2. Label elements

Symbols/Pictograms None

Signal Word None

Hazard Statements None

Precautionary Statements

Employ good industrial hygiene practice Prevention

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

and regulations.

Additional Information: None.

2.3. Other hazards No information available.

SECTION 3: Composition/information on ingredients

3.1. Substance Substance

Chemical Name	CAS Number	EC No	(CLP) Regulation (EC 1272/2008)	Weight-%	
Aluminum Hydroxide	21645-51-2	244-492-7	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.

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.

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

comfortable for breathing.

Rinse mouth thoroughly with water. Ingestion

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.

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.

Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a 6.3. Methods and material for

vacuum to collect dust Small Spill: Vacuum or sweep material and place in a containment and cleaning up

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 Minimize dust generation and accumulation

handling 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) Flame retardant.

SECTION 8: Exposure controls/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)

TWA: 5 mg/m³ (respirable dust); 10 mg/m³ TWA (total dust) NIOSH

France Not established (Non établi) Not established (Non établi) **France**

2.5 mg/m³ (inhalable); 1.2 mg/m³ (respirable) **Poland**

Switzerland TWA: 3 mg/m³

United Kingdom 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

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Worker - inhalative, long-term - local and systemic 10.74 mg/m³

PNEC (Predicted No Effect Concentration) No information available

8.2. Exposure controls

Ensure adequate ventilation, especially in confined areas **Engineering Measures**

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:

Solid Powder **Physical State** Odor Odorless

Odor Threshold No information available

8.4 - 10.2 5% Water suspension :Ha **Melting point / Freezing point** 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 Not applicable **Vapor Density Density** No data available

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2.4 g/cm3, 20° C **Relative Density**

Insoluble **Water Solubility**

Solubility in other solvents No information available Partition coefficient No information available

Autoignition Temperature Not applicable **Decomposition Temperature** 392 °F (200 °C) **Viscosity** Not applicable. Kinematic viscosity Not applicable

Explosive Properties None

Oxidizing Properties Not applicable

No information available **Particle Size**

VOC Content (%) 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 None known

products

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

> 2000 mg/kg Rat Oral LD50 **IARC** Not Listed

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

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 SensitizationBased 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

information

No information available

Information on Likely Routes of 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

SkinContact 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

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11.2.1. Endocrine disrupting

This product does not contain any known or suspected endocrine disruptors

properties

11.2.2. Other information Not applicable

SECTION 12: Ecological information

Not considered to be harmful to aquatic life 12.1. Toxicity

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

and regulations.

Empty containers should be taken to an approved waste handling site for recycling **Contaminated Packaging**

or disposal.

Waste codes should be assigned by the user based on the application for which Waste codes

the product was used

Aluminum Hydroxide

European Waste Catalog 060299

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WGK Classification (AwSV) 5220 WGK: nwg

SECTION 14: Transport information

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

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

14.2. UN proper shipping name None

14.3. Transport hazard class(es) None

None 14.4. Packing group

14.5. Environmental hazards No

14.6. Special precautions for 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	Υ	Υ	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	55-1-0259 5	Y	Y	Υ	Α

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

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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

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

Reason for Revision This safety data sheet complies with the requirements of Regulation (EC) No.

1907/2006 & COMMISSION REGULATION (EU) No. 2020/878

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

email: regulatory.affairs@huber.com.

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

Labeling

Symbols/Pictograms None

Signal Word None

Hazard Statements None.

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

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

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)

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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)

IATA (International Air 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

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