## **Safety Data Sheet**



### **MOLDX® S45**

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® S45

Chemical Name Aluminum Hydroxide

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	>99
Surface Treatment			Registered	Not classified	0.5

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

Recommended Use Flame retardant Smoke suppressant

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

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

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

and regulations.

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

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

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	-	>99
Surface Treatment			Registered	Not classified		0.5

# **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.

**Inhalation** Do not breathe dust. IF INHALED: Remove to fresh air and keep at rest in a

position comfortable for breathing.

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Rinse mouth thoroughly with water. Ingestion

**Aspiration hazard** Based on available data, the classification criteria are not met.

**Notes to Physician** Treat symptomatically.

4.2. Most important symptoms and effects, both acute and

delayed

**4.3. Indication of any immediate** Treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can

contamination.

medical attention and special treatment needed

# **SECTION 5: Firefighting measures**

cause mechanical irritation or drying of the skin.

## 5.1. Extinguishing media

### Suitable Extinguishing

Media

Use extinguishing agent suitable for type of surrounding fire. Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO2).

### **Unsuitable Extinguishing Media**

None known.

## 5.2. Special hazards arising from the substance or mixture

Non-combustible.

## 5.3. Advice for firefighters

#### Special protective

### equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### Fire-fighting measures

Water mist may be used to cool closed containers.

## **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

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

For non-emergency personnel Keep unauthorized personnel away.

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

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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** Avoid 6

handling

Avoid exposure - obtain special instructions before use

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

Minimize dust generation and accumulation

Ensure adequate ventilation

Handle in accordance with good industrial hygiene and safety practice

Use personal protective equipment as required

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

# **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

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

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

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

Russia 6 mg/m³ TWA (aerosol)

**Switzerland** TWA: 3 mg/m<sup>3</sup>

**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

#### 8.2. Exposure controls

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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

Personal protective equipment

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

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

None known. Thermal hazards

**Hygiene Measures** Follow general hygiene considerations recognized as common good workplace

practices

**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: 8.4-10.2 (5% water suspension)

Not applicable **Melting Point / Melting Range** Not applicable **Boiling Point Freezing Point** Not applicable Non-combustible **Flash Point** Not determined. **Evaporation Rate** Flammability (solid, gas) Not applicable

**Upper flammability limit:** 

Lower flammability limit:

**Vapor Pressure** Not applicable **Vapor Density** Not applicable Not applicable **Relative Density** Water Solubility Insoluble Partition coefficient Not applicable Not applicable **Autoignition Temperature** 392 °F (200 °C) **Decomposition Temperature Viscosity** 

Not applicable. **Specific Gravity** 2.4 g/cm3, 20° C

# **SECTION 10: Stability and reactivity**

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10.1. Reactivity Stable under normal conditions

10.2. Chemical stability Stable under normal conditions

10.3. Possibility of hazardous

reactions

No specific hazard known

10.4. Conditions to avoid Incompatible materials Dust formation

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.

Information on Likely Routes of Exposure

Inhalation Avoid inhalation of the product

Skin Prolonged or repeated contact may dry skin and cause irritation

Dust contact with the eyes can lead to mechanical irritation Eyes

Ingestion Ingestion is not a likely route of exposure

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

11.1. Information on toxicological effects

Aluminum Hydroxide

> 2000 mg/kg Rat Oral LD50

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

**IARC** Not Listed

# **SECTION 12: Ecological information**

Not considered to be harmful to aquatic life. 12.1. Ecotoxicity

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Aluminum Hydroxide

WGK Classification (AwSV) 5220 WGK: nwg

12.2. Persistence and

degradability

No data available.

**12.3. Bioaccumulative potential** No data available.

Partition coefficient Not applicable

**Bioconcentration factor** 

(BCF)

No data available.

**12.4. Mobility in soil** No data available.

12.5. Results of PBT and vPvB

assessment

No data available.

**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 Product residue may remain in empty containers. 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

**Aluminum Hydroxide** 

**European Waste Catalog** 060299

WGK Classification (AwSV) 5220 WGK: nwg

# **SECTION 14: Transport information**

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

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**

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	Υ	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	55-1-0259 4	Y	Y	Υ	A
Surface Treatment			Y	Y	Y	Y	Y	Y		Y	Y	Y	А

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

## REACH No.

<u>Aluminum Hydroxide</u>

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

**Surface Treatment** 

EU REACH registration number Registered

Germany

Not considered to be harmful to aquatic life

**Aluminum Hydroxide** 

WGK Classification (AwSV) 5220 WGK: nwg

## 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were carried out

# **SECTION 16: Other information**

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

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Prepared by Huber Engineered Materials Global Regulatory Affairs

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(CLP) Regulation (EC 1272/2008) 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)

CERCLÀ (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)

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** 

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