



Safety Data Sheet

This safety data sheet complies with the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

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Revision Number: 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name MAGRABAR® MD-4438
Material No. 7731
Historic Material No. F0611

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

Relevant identified uses Anti-foaming agent (defoamer)
Uses advised against Consumer use

1.3. Details of the supplier of the safety data sheet

Manufacturer MUNZING NORTH AMERICA – MAGRABAR LLC
6100 Madison Court
Morton Grove, IL 60053-3216
United States

Email: info@magrabar.com
Telephone: 1-847-965-7550

Supplier Münzing Chemie GmbH
Münzingstrasse 2
74232 Abstatt
Germany

Email: info@munzing.com
Phone: +49 (0) 7131/987-0

Emergency Telephone

Emergency telephone CHEMTREC: +1 703 741 5970

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

2.2. Label Elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

EUH210 - Safety data sheet available on request

2.3. Other hazards

No information available.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical name	EC No.	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH No.
Maize starch	232-679-6	9005-25-8	20 - 50	-	-

Full text of H- and EUH-phrases: see section 16

Substance with a Community workplace exposure limit.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Move victim to fresh air.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Self-Protection of the First Aider	Use personal protection equipment.

4.2. Most important symptoms and effects, both acute and delayed

Most important symptoms and effects	No information available.
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4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon dioxide (CO ₂). Alcohol resistant foam.
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Unsuitable Extinguishing Media No information available.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Varied particulate matter. Carbon dioxide (CO₂). Flammable/toxic gases may accumulate in tanks and hopper cars. Produce flammable and toxic gases on contact with water.

5.3. Advice for firefighters

Advice for fire-fighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protection equipment. Avoid contact with skin, eyes or clothing.

Protective precautions Use personal protection equipment.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for Containment Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Methods for Clean-Up Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Reference to other sections See Sections 5 & 7 for additional information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling Avoid dust formation. Fine dust dispersed in air may ignite. Remove all sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges resulting from the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Take precautionary measures against static discharges.

Handle in accordance with good industrial hygiene and safety practice. Do not breathe dusts or mists.

Refer to "NFPA 654", Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling recommendations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled

containers.

7.3. Specific end use(s)

Specific Uses No information available.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Exposure limits**

Chemical name	EU	United Kingdom	France	Spain	Germany
Maize starch	-	-	-	TWA: 10 mg/m ³	-
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Maize starch	-	TWA: 10 mg/m ³	-	-	-
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Maize starch	-	TWA: 3 mg/m ³	-	-	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face Protection Tight sealing safety goggles.

Skin protection Wear suitable protective clothing and gloves. Wear protective nitrile rubber gloves. Glove thickness. > 0.4 mm. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

Respiratory protection In the case of dust or aerosol formation use respirator with an approved filter.

Environmental exposure controls No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical State Solid Powder
 Appearance Opaque, White, Yellow
 Odor Mild Organic
 Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
pH	No information available	No information available
Melting point	No information available	No information available
Boiling point	No information available	No information available
Flash Point	No information available	No information available
Evaporation rate	No information available	No information available
Flammability (solid, gas)	No information available	No information available
Flammability Limit in Air		
Upper flammability limit	No information available	

Lower flammability limit	No information available	No information available
Vapor Pressure	< 1 mmHg	No information available
Vapor density	No information available	No information available
Specific Gravity	No information available	No information available
Water Solubility	Dispersible	No information available
Solubility in other solvents	No information available	No information available
Partition coefficient: n-octanol/water	No information available	No information available
Autoignition temperature	No information available	No information available
Decomposition temperature	No information available.	No information available
Viscosity	No information available	No information available
Explosive properties	No information available	No information available
Oxidizing properties	No information available	No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity Stable under normal conditions.

10.2. Chemical stability

Chemical Stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

10.4. Conditions to avoid

Conditions to Avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible Materials Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO₂). Fumes.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

Product Information

Eyes	Contact with eyes may cause irritation. Avoid contact with eyes.
Skin	Substance may cause slight skin irritation. Avoid contact with skin.
Inhalation	Health injuries are not known or expected under normal use.
Ingestion	Health injuries are not known or expected under normal use.
Unknown acute toxicity	Not applicable.

ATEmix (oral)	No data available
ATEmix (dermal)	No data available
ATEmix (inhalation-dust/mist)	No data available

Skin Corrosion/Irritation	No information available.
Eye damage/irritation	No information available.
Sensitization	No information available.
Mutagenic effects	No information available.
Reproductive Effects	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration Hazard	No information available.
Carcinogenic effects	No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity None known.

Unknown Aquatic Toxicity Not applicable.

Persistence and degradability

Persistence and degradability . No information available.

12.3. Bioaccumulative potential

Bioaccumulation/Accumulation . No information available.

12.4. Mobility in soil

Mobility in Environmental Media . No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment . Not applicable.

12.6. Other adverse effects

Other adverse effects . No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products Contain and dispose of waste according to local regulations.

Contaminated packaging Empty remaining contents.

Waste codes / waste designations according to EWC / AVV Not applicable.

Section 14: TRANSPORT INFORMATION

ADR/RID Not regulated

IMDG/IMO Not regulated

IATA Not regulated

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

US TSCA	Complies
Australia (AICS)	Complies
Canada (DSL)	Complies
China (IECSC)	Complies
Europe (EINECS/ELINCS/NLP)	Complies
Japan (ENCS)	Contact manufacturer
South Korea (KECL)	Contact manufacturer
Philippines (PICCS)	Complies
New Zealand	Complies
Taiwan (TCSI)	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

Germany

WGK Classification (AwsV) Water endangering class = 2 (self estimation)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

No information available

Legend

SVHC: Substances of Very High Concern for Authorization:

TWA - TWA (time-weighted average)

STEL - STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

* - Skin designation

Classification procedure Minimum classification**Issue Date:** 2015-12-08**Revision Date:** 2019-07-11**Reason for revision** Update to Format.**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006****Disclaimer**

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End of Safety Data Sheet