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

1.1. Product identifier

Product name: MAGRABAR® PD-602 EU

Material No.: 7620

Historic Material No.: F0312EU

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

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures
Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If symptoms persist, call a physician.
Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
Ingestion IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
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.

4.3. Indication of any immediate medical attention and special treatment needed
Notes to Physician Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing media Carbon dioxide (CO2). Foam. Dry chemical.

5.2. Special hazards arising from the substance or mixture
Hazardous combustion products
Oxides of sulfur. Carbon monoxide. 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
Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Use personal protection equipment.
General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities
Storage Conditions
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep cool. Protect from sunlight. Keep away from open flames, hot surfaces and sources of ignition. Keep from freezing.

7.3. Specific end use(s)
Specific Uses
No information available.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters
Exposure limits
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment
Eye/Face Protection  
Safety glasses with side-shields.

Skin protection  
Long sleeved clothing. Wear protective nitrile rubber gloves.

Respiratory protection  
In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Environmental exposure controls  
No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/ Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Opaque, Amber</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Mild Organic</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting point</td>
<td>&gt; 200 °C / °F</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 200 °C / °F</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>282.000013446808 °C / 539.6 °F</td>
<td>Open cup PMCC</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>&lt;1 (Butyl Acetate = 1)</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>&lt; 0.1 mmHg</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.94 - 0.98</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Emulsifiable</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1800 cps @ 25°C</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

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. Strong reducing agents.

Hazardous decomposition products  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)  16,547.00 mg/kg
ATEmix (dermal)  15,206.00 mg/kg
ATEmix (inhalation-dust/mist)  No data available

Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthetic Amorphous Silica</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 5000 mg/kg (Rabbit)</td>
<td>LC0: &gt;= 0.139 mg/l (4hr). Maximum attainable concentration. No deaths occurred.</td>
</tr>
<tr>
<td>Polyethylene glycol stearate</td>
<td>&gt; 20 g/kg (Rat) = 53 mL/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae</th>
<th>Fish</th>
<th>Daphnia magna</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthetic Amorphous Silica</td>
<td>EC50, 72h: Pseudokirchneriella subcapitata: 440 mg/L</td>
<td>LC50: &gt;10000 96h (Brachydanio rerio)</td>
<td>EC50: &gt;10000 24h</td>
</tr>
<tr>
<td>Hydrophobic silica</td>
<td>-</td>
<td>LC50: &gt;10000 mg/l, 96h</td>
<td>EC50: &gt;10000 mg/l, 24h</td>
</tr>
</tbody>
</table>

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
Section 15: REGULATORY INFORMATION

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

International Inventories

<table>
<thead>
<tr>
<th>Region</th>
<th>Complies</th>
</tr>
</thead>
<tbody>
<tr>
<td>US TSCA</td>
<td></td>
</tr>
<tr>
<td>Australia (AICS)</td>
<td></td>
</tr>
<tr>
<td>Canada (DSL)</td>
<td></td>
</tr>
<tr>
<td>China (IECSC)</td>
<td></td>
</tr>
<tr>
<td>Europe (EINECS/ELINCS/NLP)</td>
<td></td>
</tr>
<tr>
<td>Japan (ENCS)</td>
<td></td>
</tr>
<tr>
<td>South Korea (KECL)</td>
<td></td>
</tr>
<tr>
<td>Philippines (PICCS)</td>
<td></td>
</tr>
<tr>
<td>New Zealand</td>
<td></td>
</tr>
<tr>
<td>Taiwan (TCSI)</td>
<td></td>
</tr>
</tbody>
</table>

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 = 1 (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: 2015-10-29
Revision Date: 2019-07-09
Reason for revision SDS sections updated, 11, 12, 15.

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

Disclaimer
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End of Safety Data Sheet