1. Identification

Product identifier: Gap Pad 2200SF

Other means of identification: None.

Recommended use: Electrical insulation and heat conduction.

Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier: The Bergquist Company

Address: 18930 West 78th Street, Chanhassen, MN. 55317

Non-Emergency calls: 1-800-347-4572

Contact person: AEHMSDS@henkel.com

Emergency telephone number

Chemical Emergency Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-527-3887 (Collect Calls Accepted)

2. Hazard(s) identification

Physical hazards: Not classified.

Health hazards: Not classified.

Environmental hazards: Hazardous to the aquatic environment, Category 2 long-term hazard

OSHA defined hazards: Not classified.

Label elements

Signal word: None.

Hazard statement: Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention: Avoid release to the environment.

Response: Collect spillage.

Storage: Store in a closed container.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC): None known.

Supplemental information: None.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diundecyl phthalate</td>
<td>3648-20-2</td>
<td>3 - &lt;5</td>
</tr>
</tbody>
</table>

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
4. First-aid measures

**Inhalation**
Move to fresh air. Get medical attention if symptoms occur.

**Skin contact**
Wash skin with soap and water. Get medical attention if irritation persists after washing.

**Eye contact**
Flush thoroughly with water. If irritation occurs, get medical assistance.

**Ingestion**
Rinse mouth thoroughly with water and give large amounts of milk or water, if person is conscious. Do not give anything by mouth to an unconscious person. Get medical attention if any discomfort occurs.

**Most important symptoms/effects, acute and delayed**
Under normal conditions of intended use, this material does not pose a risk to health.

**Indication of immediate medical attention and special treatment needed**
Treat symptomatically.

**General information**
If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures

**Suitable extinguishing media**
Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media**
None known.

**Specific hazards arising from the chemical**
None known.

**Special protective equipment and precautions for firefighters**
Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

**Fire fighting equipment/instructions**
Move containers from fire area if you can do so without risk. In the event of fire, wear self-contained breathing apparatus.

**Specific methods**
Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**
Combustible solid.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Avoid contact with skin and eyes. See Section 8 of the SDS for Personal Protective Equipment.

**Methods and materials for containment and cleaning up**
Avoid generation and spreading of dust. Never return spills to original containers for re-use. Sweep up or gather material and place in appropriate container for disposal. Avoid dust formation.

**Environmental precautions**
Avoid discharge to the aquatic environment. Environmental manager must be informed of all major spillages.

7. Handling and storage

**Precautions for safe handling**
Provide adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Observe good industrial hygiene practices. Wear appropriate personal protective equipment (See Section 8).

**Conditions for safe storage, including any incompatibilities**
Store in closed original container in a dry place. Store away from incompatible materials.

8. Exposure controls/personal protection

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum oxide (CAS 1344-28-1)</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mg/m3</td>
<td>Total dust.</td>
</tr>
</tbody>
</table>
US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum oxide (CAS 1344-28-1)</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiberglass (CAS 65997-17-3)</td>
<td>TWA</td>
<td>3 fibers/cm³</td>
<td>Fiber.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 fibers/cm³</td>
<td>Fiber, total</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m³</td>
<td>fibers, total dust</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment
Risk of contact: Wear approved safety goggles.
Skin protection
Hand protection
Use suitable protective gloves if risk of skin contact. Suitable gloves can be recommended by the glove supplier.
Other
If prolonged or repeated contact is likely, chemical resistant clothing is recommended.
Respiratory protection
In case of inadequate ventilation, use respiratory protection.
Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

9. Physical and chemical properties

Appearance
Physical state
Solid.
Form
Solid.
Color
Green.
Odor
Slight.
Odor threshold
Not available.
pH
Not available.
Melting point/freezing point
Not available.
Initial boiling point and boiling range
Not available.
Flash point
Not applicable.
Evaporation rate
Not available.
Flammability (solid, gas)
Not flammable.

Upper/lower flammability or explosive limits
Flammability limit - lower (%)
None.
Flammability limit - upper (%)
None.
Explosive limit - lower (%)
Not available.
Explosive limit - upper (%)
Not available.
Vapor pressure
Not available.
Vapor density
Not available.
Relative density
2.87
Solubility(ies)
Insoluble in water.
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity Not applicable.
Other information
- Explosive properties Not explosive.
- Oxidizing properties Not oxidizing.

10. Stability and reactivity
Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability Material is stable under normal conditions.
Possibility of hazardous reactions Hazardous polymerization does not occur.
Conditions to avoid Contact with incompatible materials.
Incompatible materials Strong oxidizing agents.
Hazardous decomposition products In case of fire: Metal oxides. Nitrogen oxides.

11. Toxicological information
Information on likely routes of exposure
- Inhalation Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the mucous membranes and respiratory tract.
- Skin contact Prolonged skin contact may cause temporary irritation.
- Eye contact Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye.
- Ingestion Not likely, due to the form of the product.
Symptoms related to the physical, chemical and toxicological characteristics Under normal conditions of intended use, this material does not pose a risk to health.

Information on toxicological effects
- Acute toxicity Under normal conditions of intended use, this material does not pose a risk to health.
- Skin corrosion/irritation Not classified.
- Serious eye damage/eye irritation Not classified.
- Respiratory or skin sensitization
  - Respiratory sensitization Not classified.
  - Skin sensitization Not classified.
- Germ cell mutagenicity Not classified.
- Carcinogenicity Not classified.
  - IARC Monographs. Overall Evaluation of Carcinogenicity Not listed.
  - NTP Report on Carcinogens Not listed.
- Reproductive toxicity Not classified.
- Specific target organ toxicity - single exposure Not classified.
- Specific target organ toxicity - repeated exposure Not classified.
- Aspiration hazard Not classified.
- Chronic effects None known.
- Further information None known.
12. Ecological information

Ecotoxicity
Toxic to aquatic life with long lasting effects.

Persistence and degradability
This product mainly consists of inorganic compounds which are not biodegradable. The remaining components of the product are expected to be heavily biodegradable.

Bioaccumulative potential
The product does not contain any substances expected to be bioaccumulating.

Mobility in soil
No data available.

Mobility in general
The product is insoluble in water.

Other adverse effects
No data available.

13. Disposal considerations

Disposal instructions
Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations
Dispose of in accordance with local regulations.

Hazardous waste code
Not regulated.

Waste from residues / unused products
Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Contaminated packaging
Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number
UN3077

UN proper shipping name
Environmentally hazardous substances, solid, n.o.s. (Diundecyl phthalate)

Transport hazard class(es)

Class 9

Subsidiary risk -

Label(s) 9

Packing group III

Environmental hazards Yes

Marine pollutant

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

Special provisions
8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33

Packaging exceptions
155

Packaging non bulk
213

Packaging bulk
240

IATA

UN number
UN3077

UN proper shipping name
Environmentally hazardous substance, solid, n.o.s. (Diundecyl phthalate)

Transport hazard class(es)

Class 9

Subsidiary risk -

Packing group III

Environmental hazards Yes

ERG Code 9L

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number
UN3077

UN proper shipping name
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diundecyl phthalate)

Transport hazard class(es)

Class 9

Subsidiary risk -

Packing group III

Environmental hazards

Marine pollutant Yes

EmS F-A, S-F

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.
15. Regulatory information

US federal regulations

- **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**
  Not regulated.

  Not regulated.

- **CERCLA Hazardous Substance List (40 CFR 302.4)**
  Diundecyl phthalate (CAS 3648-20-2) LISTED

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

- **Hazard categories**
  - Immediate Hazard - No
  - Delayed Hazard - No
  - Fire Hazard - No
  - Pressure Hazard - No
  - Reactivity Hazard - No

- **SARA 302 Extremely hazardous substance**
  Not listed.

- **SARA 311/312 Hazardous chemical**
  No

- **SARA 313 (TRI reporting)**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum oxide</td>
<td>1344-28-1</td>
<td>80 - &lt; 90</td>
</tr>
</tbody>
</table>

**Other federal regulations**

- **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**
  Not regulated.

- **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**
  Not regulated.

- **Safe Drinking Water Act (SDWA)**
  Not regulated.

**US state regulations**

- **US. Massachusetts RTK - Substance List**
  Aluminum oxide (CAS 1344-28-1)

- **US. New Jersey Worker and Community Right-to-Know Act**
  Aluminum oxide (CAS 1344-28-1)
  fiberglass (CAS 65997-17-3)

- **US. Pennsylvania Worker and Community Right-to-Know Law**
  Aluminum oxide (CAS 1344-28-1)
  Diundecyl phthalate (CAS 3648-20-2)

- **US. Rhode Island RTK**
  Aluminum oxide (CAS 1344-28-1)
  Diundecyl phthalate (CAS 3648-20-2)

- **US. California Proposition 65**
  Not Listed.

**International Inventories**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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Gap Pad 2200SF

909983   Version #: 01   Revision date: -   Issue date: 03-February-2016
16. Other information, including date of preparation or last revision

Issue date: 03-February-2016

Revision date: -
Version #: 01

NFPA ratings

References
HSDB® - Hazardous Substances Data Bank
Registry of Toxic Effects of Chemical Substances (RTECS)

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