MATERIAL SAFETY DATA SHEET ATD-8405, Glass bead

Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION
PRODUCT NAME: ATD-8405, Glass bead.
MANUFACTURER: ATD TOOLS, INC.
DIVISION: Abrasives Systems Division
ADDRESS: 160 Enterprise Drive
Wentzville, MO, 63385
Issue Date: 03/04/10
Supercedes Date: 03/04/10
Document Group: 05-01162

Product Use:
Intended Use: Abrasive Product

SECTION 2: INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Oxide Mineral</td>
<td>1302-74-5</td>
<td>0.5-2.3</td>
</tr>
<tr>
<td>Quartz Silica</td>
<td>14464-46-1</td>
<td>72-73</td>
</tr>
<tr>
<td>Calcium oxide</td>
<td>1305-78-8</td>
<td>6.5-8</td>
</tr>
<tr>
<td>Magnesium oxide</td>
<td>1309-48-4</td>
<td>3.0-4.2</td>
</tr>
<tr>
<td>Sodium oxide</td>
<td>1313-59-3</td>
<td></td>
</tr>
<tr>
<td>Potassium superoxide</td>
<td>12030-88-5</td>
<td>&gt;14.5-15.5</td>
</tr>
</tbody>
</table>

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW
Odor, Color, Grade: Solid Abrasive Product
General Physical Form: Solid
Immediate health, physical, and environmental hazards: This document covers only for the ATD-8405. For complete assessment, when determining the degree of hazard, the material being abraded must also be considered.

3.2 POTENTIAL HEALTH EFFECTS
**Eye Contact:**
Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion. Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Skin Contact:**
Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

**Inhalation:**
Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Prolonged or repeated exposure may cause:
- Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

**Ingestion:**
Ingest the glass bead: signs/symptoms may include itching, cough and throat pain.

**SECTION 4: FIRST AID MEASURES**

4.1 FIRST AID PROCEDURES
The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

**Inhalation:** Remove person to fresh air. If signs/symptoms develop, get medical attention.

**If Swallowed:** Spit it out. If signs/symptoms persist, get medical attention.

**SECTION 5: FIRE FIGHTING MEASURES**

5.1 FLAMMABLE PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autoignition temperature</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammable Limits - LEL</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammable Limits - UEL</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

5.2 EXTINGUISHING MEDIA
Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Not applicable. None inherent in this product.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.
SECTION 6: ACCIDENTAL RELEASE MEASURES
Accidental Release Measures:
Not applicable.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE
7.1 HANDLING
For industrial or professional use only. Avoid breathing of dust created by sanding, grinding or machining. Avoid eye contact with dust or airborne particles. Damaged product can break apart during use and cause serious injury to face or eyes. Check product for damage such as cracks or nicks prior to use. Replace if damaged. Always wear eye and face protection when working at sanding or grinding operations or when near such operations. Sparks and particles flying from the product during sanding or grinding can cause injury and fire.

7.2 STORAGE
Store in a cool, dry place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 ENGINEERING CONTROLS
Provide ventilation adequate to control dust concentrations and/or control dust. Provide appropriate local exhaust ventilation for sanding, grinding or machining. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures and/or control dust, fume, or airborne particles. If ventilation is not adequate, use respiratory protection equipment.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)
8.2.1 Eye/Face Protection
Avoid eye contact. To minimize the risk of injury to face and eyes, always wear eye and face protection when working at sanding or grinding operations or when near such operations. The following eye protection(s) are recommended: Safety Glasses with side shields.

8.2.2 Skin Protection
Avoid skin contact. Wear appropriate gloves to minimize risk of injury to skin from contact with dust or physical abrasion from grinding or sanding.

8.2.3 Respiratory Protection
Avoid breathing of dust created by sanding, grinding or machining. Assess exposure concentrations of all materials involved in the work process. Consider material being abraded when determining the appropriate respiratory protection. Select and use appropriate respirators to prevent inhalation overexposure.

8.2.4 Prevention of Swallowing
Not an expected route of exposure. Wash hands after handling and before eating.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
Odor, Color, Grade: Solid Abrasive Prod
General Physical Form:  
Solid

Autoignition temperature  
Not Applicable

Flash Point  
Not Applicable

Flammable Limits - LEL  
Not Applicable

Flammable Limits - UEL  
Not Applicable

Boiling point  
Not Applicable

Vapor Density  
Not Applicable

Vapor Pressure  
Not Applicable

Specific Gravity  
Not Applicable

pH  
Not Applicable

Melting point  
Not Applicable

Solubility in Water  
Not Applicable

Evaporation rate  
Not Applicable

Kow - Oct/Water partition coef  
Not Applicable

Viscosity  
Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability:  Stable.

Materials and Conditions to Avoid:

10.1 Conditions to avoid
None known

10.2 Materials to avoid
None known

Hazardous Polymerization:  Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
Not determined.

CHEMICAL FATE INFORMATION
Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method:  The substrate that was abraded must be considered as a factor in the disposal method for this product.

Dispose of waste product in a sanitary landfill. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

EPA Hazardous Waste Number (RCRA):  Not regulated
Since regulations vary, consult applicable regulations or authorities before disposal
SECTION 14: TRANSPORT INFORMATION

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. ATD TOOLS, INC. does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements.

SECTION 15: OTHER INFORMATION

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