SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : Armstrong S-392 Static Dissipative Tile Polish
Product Code : 70010813
Trade Name/Synonyms : S-392
Recommended Use : Static Dissipative Tile Polish for use with Excelon SDT.
Uses Advised Against : No information available.
Supplier's name and address:
Armstrong World Industries, Inc.
2500 Columbia Ave.
Lancaster, PA, USA  17603
Information Telephone No. : (800) 233-3823
Website Address : http://www.floorexpert.com
24 Hr Emergency Telephone #: CHEM-TEL:  1-800255-3924 OR 1-813-248-0585 (call collect)

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015)
Eye Damage/Irritation, Category 2A
Skin Corrosion/Irritation, Category 2
Specific Target Organ Toxicity, Single Exposure, Category 3, Respiratory
Specific Target Organ Toxicity, Repeated Exposure, Category 2.

GHS Pictograms

Signal Word
Warning.

Hazard Statements
Causes serious eye irritation.
Causes skin irritation.
May cause respiratory irritation.
May cause damage to organs <Kidneys, Liver, Blood> through prolonged or repeated exposure.

Precautionary Statements
Do not breathe mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection. Wash hands and exposed skin thoroughly after handling. Take off contaminated clothing and wash before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents / container in accordance with federal, state, and local laws.

Hazards Not Otherwise Classified
None.

% with Unknown Acute Toxicity
9% of this product consists of ingredients with unknown acute toxicity.
### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>% (by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol monoethyl ether</td>
<td>111-90-0</td>
<td>1.00 – 5.00</td>
</tr>
<tr>
<td>Choline bicarbonate</td>
<td>78-73-9</td>
<td>1.00 – 5.00</td>
</tr>
<tr>
<td>Rosin acids, hydrogenated, ammonium salt</td>
<td>68649-88-7</td>
<td>1.00 – 5.00</td>
</tr>
</tbody>
</table>

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

### SECTION 4 – FIRST AID MEASURES

**General**: Call a Poison Center or doctor if you feel unwell.

**Inhalation**: If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Skin contact**: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. If irritations or symptoms develop, seek medical attention/advice.

**Eye contact**: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

**Ingestion**: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

**Notes for Physician**: Treat symptomatically.

**Signs and symptoms of short-term (acute) exposure**

- **Inhalation**: Symptoms may include coughing and shortness of breath.
- **Skin**: Symptoms may include mild redness or itching.
- **Eyes**: Symptoms may include redness, itching, or pain.
- **Ingestion**: Symptoms such as gastric pain, nausea, vomiting, and diarrhea may occur.

**Effects of long-term (chronic) exposure**: May cause kidney, liver, or blood effects.

**Indication of need for immediate medical attention or special treatment**: Difficulty breathing persists after removing the person to fresh air. Any exposure to the eye which causes irritation.

### SECTION 5 – FIRE FIGHTING MEASURES

**Suitable extinguishing media**: Carbon dioxide, dry chemical powder, alcohol foam or water spray.

**Unsuitable extinguishing media**: Water jet may spread the burning material.

**Hazardous combustion products**: Carbon monoxide, carbon dioxide, as well as other toxic vapors and gases which are common to thermal degradation of organic compounds.

**Special fire-fighting procedures/equipment**: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.

**Environmental precautions**: Unused product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

**Fire hazards/conditions of flammability**: Not flammable under normal conditions of use. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

**Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)**
SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions: Restrict access to area until completion of clean-up. All persons dealing with clean-up should wear the appropriate chemically protective equipment.

Protective equipment: Refer to Section 8 on this Safety Data Sheet, EXPOSURE CONTROLS / PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Emergency Procedures: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).

Methods and materials for containment and cleaning up: Ventilate area of release. Eliminate all ignition sources. Stop spill or leak at source if safely possible. Contain product with inert absorbent material, preventing it from entering sewer lines or waterways. Gather up spilled material and place in suitable container for later disposal (see Section 13). Residual of product, while still wet, can be cleaned up with warm soapy water. Notify the appropriate authorities as required.

Prohibited materials: None known.

Environmental precautions: Spilled product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Reference to other sections: See Section 14 for disposal information.

SECTION 7 – HANDLING AND STORAGE

Safe handling procedures: Wear suitable protective equipment during handling. (See Section 8.) Observe good hygiene standards. Use only with adequate ventilation. Do not eat, drink or smoke in the work area. Wash thoroughly after handling. Avoid contact with eyes, skin, or clothing. Avoid repeated or prolonged skin contact. Wear protective clothing to prevent skin contact. Promptly remove any clothing that becomes contaminated. Clean contaminated clothing before reuse. Keep container tightly closed.

Storage requirements: Store in a cool, dry, well-ventilated area. Store away from heat and open flame. Avoid storing in direct sunlight. Store in original container. Keep tightly closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.

Incompatible materials: See Section 10.

Special packaging materials: Always keep in containers made of the same materials as the supply container.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits: No exposure limits have been established for the product itself. Below are exposure limits for the components in the product.

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>ACGIH TLV TWA</th>
<th>STEL</th>
<th>OSHA PEL PEL</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol monoethyl ether</td>
<td>111-90-0</td>
<td>25 ppm</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Choline bicarbonate</td>
<td>78-73-9</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Rosin acids, hydrogenated, ammonium salt</td>
<td>68649-88-7</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
### Engineering Controls
Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Ventilation should effectively remove and prevent buildup of any vapor generated from the handling of this product.

### Personal Protection Equipment

**Eye / face protection**: Chemical goggles or safety glasses, as appropriate for the job.

**Skin protection**: Wear gloves which are impervious to the material. Materials such as nitrile rubber or Viton (fluorocarbon rubber) are recommended. Consult with glove manufacturers regarding breakthrough time for this material.

**Body protection**: Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact.

**Respiratory protection**: Under normal conditions of use with adequate ventilation, respiratory protection should not be necessary. If work process generates excessive quantities of vapor or dust, or exposures in excess of any PEL, wear an appropriate organic vapor respirator.

**Site safety equipment**: An eyewash station and safety shower should be made available in the immediate working area.

**General hygiene considerations**: Avoid contact with eyes, skin and clothing. Do not breathe vapors/dust. Upon completion of work, wash hands thoroughly. Remove soiled clothing and wash it thoroughly before reuse. Clean all equipment and clothing at end of each work shift.

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### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Watery, milk-white liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>N/Av</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>N/Av</td>
</tr>
<tr>
<td>pH</td>
<td>8.8</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.03</td>
</tr>
<tr>
<td>Boiling point</td>
<td>212°F (100°C)</td>
</tr>
<tr>
<td>Coefficient of water/oil distribution</td>
<td>N/Av</td>
</tr>
<tr>
<td>Melting/Freezing point</td>
<td>32°F (0°C)</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>completely soluble</td>
</tr>
<tr>
<td>Vapor pressure (mm Hg @ 20°C / 68°F)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Evaporation rate (n-Butyl acetate = 1)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Vapor density (Air = 1)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Volatiles (% by weight)</td>
<td>Approximately 80%</td>
</tr>
<tr>
<td>Particle size</td>
<td>N/Av</td>
</tr>
<tr>
<td>Flammability classification</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;100°C (&gt;212°F)</td>
</tr>
<tr>
<td>Lower flammable limit (% by vol)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point method</td>
<td>Setaflash closed</td>
</tr>
<tr>
<td>Upper flammable limit (% by vol)</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>N/Av</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N/Avt</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Explosion data: Sensitivity to mechanical impact / static discharge**: Not expected to be sensitive to mechanical impact or static discharge.

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### SECTION 10 – REACTIVITY AND STABILITY INFORMATION

**Reactivity** : Not reactive.

**Stability** : Stable under the recommended storage and handling conditions prescribed.

**Hazardous reactions** : Hazardous polymerization does not occur.

**Conditions to avoid** : Extreme heat.

**Materials to avoid and incompatibility** : Strong oxidizing agents.

**Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

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### SECTION 11 – TOXICOLOGICAL INFORMATION
**Routes of exposure**

- **Inhalation:** YES
- **Skin Absorption:** YES
- **Skin and Eyes:** Yes
- **Ingestion:** YES

**Symptoms of exposure**

See Section 4.

**Calculated Acute Toxicity Estimates for the Product**

- **Inhalation:** > 100 mg/L
- **Oral:** > 8,000 mg/kg
- **Dermal:** > 8,000 mg/kg

**Toxicological data**

There are no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>LC50 (4 hr) Inhalation, rat</th>
<th>LD50 Oral, rat</th>
<th>LD50 Dermal, rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol monoethyl ether</td>
<td>&gt; 5240 mg/m³</td>
<td>5500 μL/kg</td>
<td>4200 μL/kg</td>
</tr>
<tr>
<td>Choline bicarbonate</td>
<td>N/Av</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
<tr>
<td>Rosin acids, hydrogenated, ammonium salt</td>
<td>N/Av</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

**Skin corrosion or irritation**

May cause slight irritation to skin.

**Serious eye damage / eye irritation**

Causes severe irritation to eyes.

**Respiratory or skin sensitization**

None known.

**Germ cell mutagenicity**

None known.

**Carcinogenic status**

No components present at greater than or equal to 0.1% of this product are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

**Reproductive toxicity**

None known.

**Specific Target Organ Toxicity, Single Exposure**

May cause respiratory irritation. In the pure state, Diethylene glycol monoethyl ether may cause narcotic effects, also known as Central Nervous System (CNS) effects, such as headaches, dizziness, nausea, and muscle incoordination. At the concentration present in this product, it is unlikely to produce narcotic effects under reasonable conditions of use.

**Specific Target Organ Toxicity, Repeated Exposure**

Some components in this product have been found to cause damage to Kidneys, Liver, and Blood in laboratory tests on animals.

**Aspiration hazard**

None known.

**Additional information**

N/Av

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**SECTION 12 – ECOLOGICAL INFORMATION**

**Environmental effects**

Unused product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

- **Ecotoxicity:** No data available.
- **Biodegradability:** No data available.
- **Bioaccumulative potential:** No data available.
- **Mobility in soil:** No data available.
- **PBT and vPvB assessment:** No data available.
- **Other adverse effects:** No data available.

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**SECTION 13 – DISPOSAL CONSIDERATION**

**Handling for disposal**

Handle waste according to recommendations in Section 7.

**Methods of disposal**

You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. Dispose in accordance with all applicable federal, state, provincial and local regulations.
Contact your local, state, provincial or federal environmental agency for specific rules.

Packaging:
Handle contaminated packaging in the same manner as the product.

RCRA:
If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 – TRANSPORTATION INFORMATION

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN Number</th>
<th>Shipping Name</th>
<th>Class</th>
<th>Packing Group</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDG</td>
<td>None</td>
<td>This product is not regulated according to Canadian TDG regulations.</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>TDG Additional Information</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>49 CFR/DOT</td>
<td>None</td>
<td>This product is not regulated according to US DOT regulations.</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>49 CFR/DOT Additional Information</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 15 – REGULATORY INFORMATION

Canadian Information:
This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all of the information required by the HPR.
Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL).

US Federal Information:
TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.
SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.
SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.
SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

U.S. State Right To Know Laws
California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer and/or reproductive harm.

Other State Right to Know Laws: No components in this product are listed on State Right To Know Laws in California, Massachusetts, Minnesota, New Jersey, New York, Pennsylvania, or Rhode Island.

SECTION 16 – OTHER INFORMATION
HMIS Rating

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>PPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>*</td>
<td>2</td>
<td>0</td>
<td>Gloves, safety glasses</td>
</tr>
</tbody>
</table>

Legend

- ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- DSL: Domestic Substances List
- EPA: Environmental Protection Agency
- GHS: Globally Harmonized System
- HPR: Hazardous Products Regulations
- IARC: International Agency for Research on Cancer
- Inh: Inhalation
- N/Av: Not Available
- N/Ap: Not Applicable
- NIOSH: National Institute of Occupational Safety and Health
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- RCRA: Resource Conservation and Recovery Act
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TSCA: Toxic Substance Control Act
- TWA: Time Weighted Average
- WHMIS: Workplace Hazardous Materials Identification System

Disclaimer of Liability

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

No warranty of any kind is given or implied. Armstrong World Industries, Inc. will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

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Revision date: 04-Mar-2015

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