



## 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 : Use only as recommended in the product's Technical Data Sheet.  
**Supplier's name and address:**  
Armstrong Flooring, 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: 1-800-255-3924 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/vapors/spray. Use only 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

Ingredients	CAS #	% (by weight)
Diethylene glycol monoethyl ether	111-90-0	1.00 – 5.00
Choline bicarbonate	78-73-9	1.00 – 5.00
Rosin acids, hydrogenated, ammonium salt	68649-88-7	1.00 – 5.00

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 person 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 serious 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)**



NFPA Rating : Not flammable.  
: 0 - Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe  
*Health: 2 Flammability 1 Instability 0 Special Hazards: None*

## 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 for additional information on acceptable personal protective equipment.
- Emergency Procedures** : This product does not contain chemicals requiring EPA notification for spills. In case of a chemical spill, call the emergency telephone number listed in Section 1.  
US CERCLA Reportable quantity (RQ): None reported.
- Methods and materials for containment and cleaning up** : Ventilate area of release. 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 13 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. 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.

Ingredients	CAS #	ACGIH TLV		OSHA PEL	
		TWA	STEL	PEL	STEL
Diethylene glycol monoethyl ether	111-90-0	25 ppm (AIHA WEEL)	N/Av	N/Av	N/Av
Choline bicarbonate	78-73-9	N/Av	N/Av	N/Av	N/Av
Rosin acids, hydrogenated, ammonium salt	68649-88-7	N/Av	N/Av	N/Av	N/Av

**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** : 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.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

- |   |                           |   |                             |
|---|---------------------------|---|-----------------------------|
| <b>Physical state</b>                       | : Liquid                  | <b>Appearance</b>                             | : Watery, milk-white liquid |
| <b>Odor</b>                                 | : N/Av                    | <b>Odor threshold</b>                         | : N/Av                      |
| <b>pH</b>                                   | : 8.8                     | <b>Specific gravity</b>                       | : 1.03                      |
| <b>Boiling point</b>                        | : 212°F (100°C)           | <b>Coefficient of water/oil distribution</b>  | : N/Av                      |
| <b>Melting/Freezing point</b>               | : 32°F (0°C)              | <b>Solubility in water</b>                    | : completely soluble        |
| <b>Vapor pressure (mm Hg @ 20°C / 68°F)</b> | : N/Av                    | <b>Evaporation rate (n-Butyl acetate = 1)</b> | : N/Av                      |
| <b>Vapor density (Air = 1)</b>              | : N/Av                    | <b>Volatiles (% by wt, including water)</b>   | : Approximately 80%         |
| <b>Volatile organic compounds (VOCs)</b>    | : 0% per CARB regulations |   |                             |
| <b>Particle size</b>                        | : N/Av                    | <b>Flammability classification</b>            | : Not flammable             |
| <b>Flash point</b>                          | : >100°C (>212°F)         | <b>Lower flammable limit (% by vol)</b>       | : Not available             |
| <b>Flash point method</b>                   | : Setaflash closed        | <b>Upper flammable limit (% by vol)</b>       | : Not available             |
| <b>Auto-ignition temperature</b>            | : N/Av                    | <b>Decomposition temperature</b>              | : Not available             |
| <b>Viscosity</b>                            | : N/Av                    | <b>Oxidizing properties</b>                   | : Not available             |
- Explosion data: Sensitivity to mechanical impact / static discharge**  
: Not expected to be sensitive to mechanical impact or static discharge.

**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.

**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.

Ingredients	LD50		
	LC50 (4 hr) Inhalation, rat	Oral, rat	Dermal, rabbit
Diethylene glycol monoethyl ether	> 5240 mg/m <sup>3</sup>	5500 µL/kg	4200 µL/kg
Choline bicarbonate	N/Av	N/Av	N/Av
Rosin acids, hydrogenated, ammonium salt	N/Av	N/Av	N/Av

**Skin corrosion or irritation** : May cause slight irritation to skin.

**Serious eye damage / eye irritation** : Causes serious 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

**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.

**SECTION 13 – DISPOSAL CONSIDERATION**

**Handling for disposal** : Handle waste according to recommendations in Section 7.

**Methods of disposal** : 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** : For disposal of unused or waste material, check with local, state and federal environmental agencies.

**SECTION 14 – TRANSPORTATION INFORMATION**



Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	This product is not regulated according to Canadian TDG regulations.	None	None	None
TDG Additional Information	None				
49 CFR/DOT	None	This product is not regulated according to US DOT regulations.	None	None	None
49 CFR/DOT Additional Information	None				

IATA : Not regulated for Air Transport  
 ICAO : Not regulated for Air Transport  
 IMDG : Not regulated for Ocean Transport

## 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 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 threshold for this product is 10,000 pounds.

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: See product label for information regarding Proposition 65.

Other State Right to Know Laws:

Ingredients present on state RTK list?	N° CAS	CA	MA	MN	NJ	NY	PA	RI
Diethylene glycol monoethyl ether	111-90-0	No	No	No	Yes	No	Yes	Yes
Choline bicarbonate	78-73-9	No	No	No	No	No	No	No
Rosin acids, hydrogenated, ammonium salt	68649-88-7	No	No	No	No	No	No	No

## SECTION 16 – OTHER INFORMATION

HMIS Rating : \* - Chronic Hazard 0 - Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe  
 Health: \*2 Flammability 1 Physical Hazard: 0 PPE: Gloves, safety glasses



**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 determines the adequacy of the safety procedures employed during the use of this product. No warranty of any kind is given or implied. Armstrong Flooring, 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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