SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th>Armstrong S-700 Floor Tile Adhesive Thin Spread</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td>70010023</td>
</tr>
<tr>
<td>Trade Name/Synonyms</td>
<td>S-700</td>
</tr>
<tr>
<td>Recommended Use</td>
<td>Thin Spread adhesive for floor tiles.</td>
</tr>
<tr>
<td>Uses Advised Against</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

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)
Acute Toxicity, Oral, Category 4
Skin Corrosion/Irritation, Category 2
Skin Sensitization, Category 1
Serious Eye Damage/Eye Irritation, Category 2A.

GHS Pictograms

Signal Word
Warning.

Hazard Statements
Harmful if swallowed.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

Precautionary Statements
Avoid breathing dust/gas/vapours. Wear protective gloves and eye protection. Do not eat, drink or smoke when using this product. Wash hands and exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Dispose of contents/container in accordance with federal, state, and local laws. Do not allow product to enter drains.

During normal usage of the product as recommended, airborne dusts and mists will not be present. See Section 7 (Handling and Storage) for further details.

Hazards Not Otherwise Classified
None.
% with Unknown Acute Toxicity

5% 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>Asphalt</td>
<td>8052-42-4</td>
<td>40.00 – 70.00</td>
</tr>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>0.50 – 1.50</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 redness and 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

Prolonged inhalation may cause adverse lung effects with symptoms including coughing and shortness of breath. Prolonged exposure to the skin may cause a sensitization reaction in some individuals, where repeat exposures will result in an allergic skin reaction.

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.
Ingestion.

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, sulfur oxides (SOx) 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 : Do not allow material to enter drains or contaminate ground water system.
Fire hazards/conditions of flammability
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).

US CERCLA Reportable quantity (RQ): None reported.

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: Do not allow product to enter drains or waterways. Do not allow material to contaminate ground water system.

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. Avoid breathing vapors or mists of this product. Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted. Sanding and grinding dusts may be harmful if inhaled. When removing this product from existing flooring (i.e. during a renovation), wear safety goggles and respiratory protection from dust due to blasting, chipping, or mechanically pulverizing. 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</th>
<th>OSHA PEL</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>STEL</td>
<td>PEL</td>
</tr>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>0.5 mg/m³ (fume, inhalable Fraction, as Benzene soluble aerosol)</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>N/Av</td>
<td>N/Av</td>
<td>N/Av</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**: 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. Avoid breathing vapors/dust. Do not eat, drink or smoke when using this product. 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical state</strong></td>
<td>Paste</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Asphalt</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>10.0 – 11.0</td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
<td>212°F (100°C)</td>
</tr>
<tr>
<td><strong>Melting/Freezing point</strong></td>
<td>N/Av</td>
</tr>
<tr>
<td><strong>Vapor pressure (mm Hg @ 20°C / 68°F)</strong></td>
<td>N/Av</td>
</tr>
<tr>
<td><strong>Vapor density (Air = 1)</strong></td>
<td>N/Av</td>
</tr>
<tr>
<td><strong>Volatile organic compounds (VOCs)</strong></td>
<td>&lt; 1 g/L SCAQMD 1168</td>
</tr>
<tr>
<td><strong>Particle size</strong></td>
<td>N/Av</td>
</tr>
<tr>
<td><strong>Flammability classification</strong></td>
<td>Not flammable</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>&gt;93.3°C (200°F)</td>
</tr>
<tr>
<td><strong>Flash point method</strong></td>
<td>Setalflash closed</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>N/Av</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>15,000 cSt</td>
</tr>
<tr>
<td><strong>Explosion data</strong></td>
<td>Not expected to be sensitive to mechanical impact or static discharge</td>
</tr>
</tbody>
</table>

### 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:** NO
- **Skin and Eyes:** Yes
- **Ingestion:** YES

#### Symptoms of exposure
See Section 4.

#### Calculated Acute Toxicity Estimates for the Product

<table>
<thead>
<tr>
<th></th>
<th>LC50 (4 hr)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inhalation, rat</td>
<td>Oral, rat</td>
</tr>
<tr>
<td>Asphalt (contains &lt; 0.1% hydrogen sulfide, H₂S)</td>
<td>N/Av</td>
<td>&gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Rosin</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

#### Toxicological data
See below for individual ingredient acute toxicity data.

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Inhalation, rat</th>
<th>Oral, rat</th>
<th>Dermal, rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>N/Av</td>
<td>&gt; 5,000 mg/kg</td>
<td>N/Av</td>
</tr>
<tr>
<td>Rosin</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**: May cause severe irritation to eyes.

**Respiratory or skin sensitization**: Contains Rosin, which is known to cause skin sensitization reactions. When Rosin is molten, its vapors can also cause respiratory sensitization. Under normal conditions of use, this product will not generate Rosin vapors. See precautions recommended for persons with a history of skin sensitization problems or asthma in Section 7.

**Germ cell mutagenicity**: None known.

**Carcinogenic status**: This product contains trace amounts of Crystalline silica, quartz. Crystalline silica, quartz of respirable size (< 10 micron diameter) is classified as carcinogenic via inhalation by IARC (Group 1), ACGIH (Group A2), NTP (Group 1) and OSHA (OSHA Select carcinogen). During normal usage of the product as recommended, airborne dusts will not be present. See Section 7 for more information. No other components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

**Reproductive toxicity**: None known.

**Specific Target Organ Toxicity, Single Exposure**: None known.

**Specific Target Organ Toxicity, Repeated Exposure**: None known.

**Aspiration hazard**: None known.

**Additional information**: N/Av

### SECTION 12 – ECOLOGICAL INFORMATION

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

**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>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>49 CFR/DOT Additional Information</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</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: Warning! This product contains a chemical known to the State of California to cause cancer. It contains Crystalline silica, quartz.

Other State Right To Know Laws: Asphalt [CAS# 8052-42-4] (CA, MA, MN, NJ, PA, RI); Rosin [CAS# 8050-09-7] (MN); Crystalline silica, quartz [CAS# 14808-60-7] (MA, MN, NJ, PA, RI).

HMIS Rating:

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>PPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</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
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.

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Prepared By: