

SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : **Armstrong S-202 Static Dissipative Tile Adhesive**
Product Code : 00202108, 00202418
Trade Name/Synonyms : S-202
Recommended Use : Flooring adhesive for static dissipative tiles.
Uses Advised Against : No information available.

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 +01-813-248-0585 (call collect)

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015)

Carcinogenicity, Category 2
Specific target organ toxicity, single exposure; Narcotic effects Category 3
Aspiration hazard, Category 2.

GHS Pictograms



Signal Word

Warning.

Hazard Statements

Suspected of causing cancer.
May cause drowsiness or dizziness.
May be harmful if swallowed and enters airways.

Precautionary Statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. Avoid breathing dust or vapours. Use only outdoors or in a well-ventilated area. 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. Do not allow product to enter drains.

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

Hazards Not Otherwise Classified None.

% with Unknown Acute Toxicity None.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Carbon black	1333-86-4	3.00 – 7.00
Stoddard Solvent	8052-41-3	1.00 – 5.00
Vinyl acetate	108-05-4	0.10 – 0.50

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. Exposure to high vapour concentration can cause dizziness, nausea and central nervous system depression.
- 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. If large amounts are ingested, symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

Effects of long-term (chronic) exposure

- : Prolonged inhalation may cause adverse lung effects with symptoms including coughing and shortness of breath.

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.
- Hazardous combustion products** : Carbon monoxide, carbon dioxide, nitrogen oxides (NO_x) and 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** : 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. Ammonia gas may be liberated at high temperatures.
- Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)** : Not flammable under normal conditions of handling.
- NFPA Rating** : 0 - Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe
Health: 1 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 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): Vinyl acetate: 5000 lbs.
- 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** : Avoid strong oxidizing agents
- 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** : Observe good hygiene standards. Use only with adequate ventilation. Do not eat, drink or smoke in the work area. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Avoid repeated or prolonged skin contact. Avoid breathing vapors or mists of this product. 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.

Ingredients	CAS #	ACGIH TLV		OSHA PEL	
		TWA	STEL	PEL	STEL
Carbon black	1333-86-4	3.0 mg/m ³ (inhalable)	N/Av	3.5 mg/m ³	N/Av
Stoddard Solvent	8052-41-3	100 ppm	N/Av	500 ppm	N/Av
Vinyl acetate	108-05-4	10 ppm	15 ppm	10 ppm	20 ppm (final rule limits)

- 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

- | | | | |
|---|----------------------|---|-----------------|
| Physical state | : Paste | Appearance | : Black paste |
| Odor | : Ammonia odor | Odor threshold | : N/Av |
| pH | : 9.5 | Specific gravity | : 1.02 |
| Boiling point | : 212°F (100°C) | Coefficient of water/oil distribution | : N/Av |
| Melting/Freezing point | : N/Av | Solubility in water | : Appreciable |
| Vapor pressure (mm Hg @ 20°C / 68°F) | : N/Av | Evaporation rate (n-Butyl acetate = 1) | : N/Av |
| Vapor density (Air = 1) | : N/Av | Volatiles (% by weight) | : 40 % |
| Volatile organic compounds (VOCs) | : 50 g/L SCAQMD 1168 | | |
| Particle size | : N/Av | Flammability classification | : Not flammable |
| Flash point | : >93.3°C (200°F) | Lower flammable limit (% by vol) | : Not available |
| Flash point method | : Setflash closed | Upper flammable limit (% by vol) | : Not available |
| Auto-ignition temperature | : N/Av | Decomposition temperature | : Not available |
| Viscosity | : Not available | Oxidizing properties | : 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** : High temperatures.
- Materials to avoid and incompatibility**
: Strong oxidizing agents; Acids; halogenated compounds.
- 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

Inhalation : > 30 mg/L
Oral : > 3000 mg/kg
Dermal : > 3000 mg/kg

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

Ingredients	LD50		
	Inhalation, rat	Oral, rat	Dermal, rabbit
Carbon black	6750 mg/m ³	> 15,400 mg/kg	> 3000 mg/Kg
Stoddard Solvent	> 5500 mg/m ³	> 5000 mg/kg	> 3000 mg/kg
Vinyl acetate	3250 – 4100 ppm	2900 mg/kg	2300 mg/kg

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

Serious eye damage / eye irritation : May cause slight irritation to eyes.

Respiratory or skin sensitization : Not expected to cause skin or respiratory sensitization reactions.

Germ cell mutagenicity : Contains Carbon black. Test results for Carbon black are:

Ames test (*S. typhimurium*) – Result: negative
Hamster (ovary) – Result: negative
DNA repair (rat, female) – Result: negative

Carcinogenic status : This product contains Carbon black and Vinyl acetate. Carbon black and Vinyl acetate are each classified as possibly carcinogenic to humans by IARC (Group 2B) based on rat inhalation studies. ACGIH has classified Carbon black as not classifiable as a human carcinogen (Group A4). ACGIH has classified Vinyl acetate as a proven animal carcinogen (Group A3). NTP and OSHA have not classified Carbon black or Vinyl acetate in terms of carcinogenicity. 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

: Overexposure may cause Central Nervous System effects.

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.

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 : 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

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				

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): Vinyl acetate: 5000 lbs.

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: This product contains an Extremely Hazardous Substance under SARA Section 302. This product contains: vinyl acetate.

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 may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their *de minimus* concentrations. This product contains: vinyl acetate.

U.S. State Right To Know Laws

California Proposition 65:  **WARNING:** This product can expose you to carbon black, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov

Other State Right to Know Laws: Carbon black [CAS# 1333-86-4] (CA, MA, MN, NJ, PA, RI); Stoddard solvent [CAS# 8052-41-3] (CA, MA, MN, NJ, PA, RI), Vinyl acetate [CAS# 108-05-4] (CA, MA, MN, NJ, NY, PA, RI).

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 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 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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