MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Name: Armstrong S-553 Seam Sealing Adhesive
Description: Solvent/Resin Solution

II. DEPARTMENT OF TRANSPORTATION INFORMATION

Shipping name: Adhesive (Tetrahydrofuran). Hazard Class: 3 (Flammable Liquid). ID#: UN 1133. PG: II (S-553 Seam Sealing Adhesive). Reportable Quantity (RQ): 2,000 lbs.
Note: Due to limited quantities, may be shipped as a "consumer commodity", hazard class "ORM-D", unless shipped by aircraft or for international transportation.
EMERGENCY ONLY CONTACT: CHEM-TEL -1-800-255-3924

III. HMIS (0 = minimal hazard; 4 = severe hazard)

Health = 2 Flammability = 3 Reactivity = 0

IV. PRODUCT CONTENT

This product contains chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372. All components are on TSCA inventory. This product does NOT contain asbestos.

Armstrong

S-553

Prepared 10/03 – Replaces 11/98

Armstrong World Industries, Inc.
P.O. Box 3209
Lancaster, PA 17604
(717) 396-2328 or (717) 396-2935

V. HAZARDOUS INGREDIENTS

(Chemical Identity; Common Name)	C.A.S. No.	%	OSHA PEL	ACGIH TLV
Tetrahydrofuran	109-99-9	80	200 ppm STEL: 250 ppm	200 ppm STEL: 250 ppm
Cyclohexanone	108-94-1	10	25 ppm (Skin)	25 ppm (Skin)
Diisononyl Phthalate	68515-48-0	2	N/A	N/A

VI. PHYSICAL DATA

APPEARANCE AND COLOR: Water white, free-flowing liquid with sweet, ether-like odor. BOILING POINT (degrees F): N/K. VAPOR PRESSURE (mm Hg @ 20 degrees C): N/K. VAPOR DENSITY (Air = 1): 2.57. SOLUBILITY IN WATER: Moderately. SPECIFIC GRAVITY (H_2O = 1): 0.91. PERCENT VOLATILE BY WEIGHT (30 min. @ 275 degrees F): 90. EVAPORATION RATE (Butyl Acetate = 1): N/K. pH: N/A.

VII. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Less than 20° F (Pensky-Martens closed cup). FLAMMABLE RANGE: LEL = N/K; UEL = N/K. EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, alcohol-type foam. SPECIAL FIRE FIGHTING PROCEDURES: Protect fire fighters from toxic products of combustion by wearing self-contained breathing apparatus. UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers in a fire may rupture due to pressure build-up; use water to cool containers to prevent this.

VIII. HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: Inhalation and direct dermal exposure. TARGET ORGANS: Upper respiratory tract, skin, eyes. EFFECTS OF OVEREXPOSURE: SKIN AND EYES: Excessive skin contact may cause drying and cracking of the skin, defatting of tissue, and result in dermatitis. Contact with eyes will cause irritation. INHALATION: Tetrahydrofuran and Cyclohexanone: Irritation of respiratory tract, coughing, headache, dizziness, drowsiness, nausea, uncoordinated movements. Di-2-ethylhexyl phthalate: Listed as a suspected carcinogen by the National Toxicology Program. Long term, high level animal feeding tests have produced neoplasms. The low vapor pressure of this material essentially eliminates acute inhalation hazard unless the liquid is heated or misted. The TLV has been established to prevent inhaling of excessive levels of airborne DEHP which can cause nausea and be irritating to mucous membranes and the respiratory tract. CARCINOGENICITY: NTP: No; IARC Monographs: No; OSHA Regulated: No. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Any condition generally aggravated by solvents, including preexisting upper respiratory and lung disease such as, but not limited to bronchitis, emphysema and asthma. Existing skin conditions. FIRST AID PROCEDURES: SKIN AND EYES: Flush any skin or eye contact with plenty of water. Additionally with skin contact, wash with soap and water. Refer to physician if irritation or symptoms persist. Remove contaminated clothing immediately. INHALATION: Remove to fresh air if exposed to excess concentrations of vapor. Seek medical attention if symptoms persist. INGESTION: Immediately call Poison Control Center or physician for directions and assistance.

IX. REACTIVITY DATA

STABILITY: Stable. INCOMPATIBILITY: Strong oxidizing agents. HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and other toxic vapors and gases that are common to thermal degradation of organic compounds. HAZARDOUS POLYMERIZATION: Will not occur.

X. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition. Ventilate area of spill or leak; if using mechanical ventilation, make sure that it is explosion-proof or does not present an ignition source. For exposures above TLV, wear approved respiratory equipment. Contain spill, preventing it from entering sewer lines or waterways. Use absorbent to assist with the pick-up of material. WASTE DISPOSAL METHOD: Do not reuse container. Dispose of container and any unused contents in accordance with Federal, State and Local Waste Disposal Regulations. Do not flush unused contents or residue down drains.

XI. SPECIAL HANDLING AND USE INFORMATION

VENTILATION: Use natural cross-ventilation, local (mechanical) pick-up, and/or general area (mechanical) ventilation to prevent an accumulation of solvent vapors, keeping in mind that the ventilation pattern must remove the heavier-than-air solvent vapors from the lower levels of the work spaces. The ventilation should be sufficient to keep the solvent vapor concentration below the TLV. RESPIRATORY PROTECTION: With adequate ventilation, respiratory equipment should not be needed. If adequate ventilation is not afforded, wear respiratory equipment approved for organic vapors. SKIN AND EYE PROTECTION: During the handling of this material, impervious gloves and eye protection should be utilized to prevent skin and eye contact.

XII. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in an area suitable for flammable mixtures. Recommended storage temperature is below 90 degrees F. OTHER PRECAUTIONS: Vapors are flammable and are heavier-than-air. Prohibit smoking and eliminate all other sources of ignition, such as regular electrical tools and appliances, making sure that pilots on gas-fired water heaters are extinguished.
WORK SITE ENVIRONMENT: Initially there may be a potential adverse impact on indoor air quality within the general work area during the installation process. Therefore you should advise the building manager or other appropriate person that: • It will be necessary to establish and maintain adequate ventilation of the work area, without causing the entry of contaminants to other parts of building; and • Persons who are sensitive to odors and/or chemicals should be advised to avoid the work area during this process.

The information presented herein is supplied as a guide to those who handle or use this product. 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.

N/A – not applicable or not available
N/K – none known or not known