

Material Safety Data Sheet

I. PRODUCT IDENTIFICATION

Name: Armaflex 520 Adhesive

Description: Solvent-dispersed synthetic rubber resin adhesive.

II. DEPARTMENT OF TRANSPORTATION INFORMATION

Shipping name: Adhesive containing a flammable liquid (Hexane & Acetone)
Hazard Class: 3 (Flammable Liquid) ID# UN 1133 PG: II (Armaflex 520 Adhesive)

Reportable Quantity (RQ): 6250 lb.

EMERGENCY ONLY CONTACT: CHEM-TEL 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 or polychlorinated biphenyls.

V. HAZARDOUS INGREDIENTS

Chemical Identity: Common Name	C.A.S. No.	%	OSHA PEL	ACGIH TLV
Acetone	67-64-1	25	750 ppm	500 ppm
Toluene	108-88-3	16	STEL: 1000 ppm 100 ppm	STEL: 750 ppm 50 ppm
Hexane	110-64-3	34	STEL: 150 50 ppm	(skin) 50 ppm (skin)
Synthetic Rubber	N/A	13	N/K	N/K
Phenolic Resin	25085-60-1	9	N/K	N/K
Rubber Curing Ingredients	1309-48-4	3	N/K	N/K

VI. PHYSICAL DATA

APPEARANCE AND COLOR: Straw colored liquid with characteristic solvent odor. BOILING POINT (°F): >152. VAPOR PRESSURE (mm Hg @ 20°C): 180. VAPOR DENSITY (Air = 1): N/K. SOLUBILITY IN WATER: Negligible. SPECIFIC GRAVITY (H₂O=1): 0.63. PERCENT VOLATILE BY WEIGHT (30 min. @ 275°F): 75. EVAPORATION RATE (Butyl Acetate=1): N/K. pH: N/A. VOC: 618 g/l calculated at 70°F/21°C, SCAQMD.

VII. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 20°F (-7°C) based on Acetone (closed cup). FLAMMABLE RANGE: LEL = 1.1; UEL = 13.0 (based on Hexane and Acetone). 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 and eyes. EFFECTS OF OVEREXPOSURE: SKIN AND EYES: Excessive skin contact may cause drying and cracking of skin, defatting of tissue, and result in dermatitis. Contact with eyes will cause irritation. INHALATION: May cause irritation of respiratory tract, coughing, and CNS effects such as headache, dizziness, drowsiness, nausea. CARCINOGENICITY: NTP: No IARC Monographs: No OSHA Regulated: No MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Any condition generally aggravated by solvents; preexisting upper respiratory and lung disease such as, but not limited to bronchitis, emphysema, and asthma. 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. INHALATION: Remove to fresh air if exposed to excess concentrations of vapor. Seek medical attention if symptoms persist. INGESTION: Do not induce vomiting. Call Poison Control Center or physician for guidance.

Armaflex 520 Adhesive

Prepared 10/03 - Replaces 4/03
2 Pages

Armacell LLC
P.O. Box 1038
7600 Oakwood Street Extension
Mebane, NC 27302
(919) 304-3846

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. Scrape up adhesive and place in container. WASTE DISPOSAL METHOD: 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. Do not reuse container.

XI. SPECIAL HANDLING AND USE INFORMATION

VENTILATION: Extremely flammable vapors may ignite explosively or cause flash fire. 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 manufacture and packaging of this product, impervious gloves, eye protection, and eye wash facilities may be appropriate. During normal end product use, cotton or loop-pile gloves and spectacle-type safety glasses are recommended to prevent contact with this mastic product.

XII. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in area suitable for flammable mixtures. Recommended storage temperature is below 90 ° 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. **Warning:** This product contains toluene, a chemical known to the State of California to cause birth defects or other reproductive harm. **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 the 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