

Armstrong World Industries, Inc.  
Environmental, Health and Safety  
313 W. Liberty Street, P. O. Box 3001  
Lancaster, PA 17604  
Telephone (717) 396-2328 or 396-2935

Division: Industry Products  
Issued By: Safety, Health and  
Industrial Hygiene Department

Date: 7/21/95 (replaces 3/19/93)

NFPA 704 (0 = no hazard; 4 = severe hazard)  
Health = 2  
Fire = 3  
Reactivity = 0

N/A = Not Applicable or Not Available  
N/K = None Known or Not Known

Dept. of Transportation Information:  
Shipping Name: Adhesive (Hexane & Acetone)  
Hazard Class: 3 (Flammable Liquid)  
ID#: UN 1133; PG: II  
(Armstrong 520 Adhesive)

Reportable Quantity (RQ): 6667 lb.  
Emergency Only Contact: CHEM-TEL 800-255-3924

# I. Product Information

A. Product Name: 520 Adhesive

B. Chemical Name and Synonyms: N/A

C. Chemical or Product Family: Solvent-dispersed synthetic rubber resin adhesive

# II. Ingredient Information

| Ingredients<br>(Chemical Identity; Common Name) | C.A.S. No. | %  | OSHA PEL                  | ACGIH TLV                 |
|-------------------------------------------------|------------|----|---------------------------|---------------------------|
| Acetone                                         | 67-64-1    | 25 | 750 ppm<br>STEL: 1000 ppm | 750 ppm<br>STEL: 1000 ppm |
| Toluene                                         | 108-88-3   | 16 | 100 ppm<br>STEL: 150 ppm  | 50 ppm<br>(skin)          |
| Hexane                                          | 110-54-3   | 34 | 50 ppm                    | 50 ppm                    |
| Synthetic Rubber                                | 9010-98-4  | 13 | N/K                       | N/K                       |
| Phenolic Resin                                  | N/A        | 9  | N/K                       | N/K                       |
| Rubber Curing Ingredients                       | N/A        | 3  | N/K                       | N/K                       |

This product formulation does not contain asbestos or polychlorinated biphenyls.

# III. Physical Data

- Appearance and Color: Straw colored liquid with characteristic solvent odor
- Boiling Point (degrees F): greater than 152
- Vapor Pressure (mm Hg @ 20 degrees C): 180
- Vapor Density (Air = 1): N/K
- Solubility in Water: negligible
- Specific Gravity (H<sub>2</sub>O = 1): 0.83
- Percent Volatile by Weight (30 min. @ 275 degrees F): 75
- Evaporation Rate (Butyl Acetate = 1): N/K
- pH: N/A

# IV. Fire and Explosion Data

- Flash Point: less than 20 degrees F (Pensky-Martens closed cup)
- Flammable Range: LEL = N/K; UEL = N/K
- Extinguishing Media: Carbon dioxide, dry chemical, Halon
- 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.



## V. Health Data

- A. Primary Route(s) of Entry: Skin, inhalation
- B. Target Organs: Skin, lungs  
Effects of Overexposure:  
Skin and Eyes: Excessive skin contact may cause drying and cracking of the skin, and result in dermatitis. Contact with eyes will cause irritation.  
Inhalation: Irritation of respiratory tract, coughing, headache, dizziness, drowsiness, nausea, uncoordinated movements.
- C. Carcinogenicity: NTP: No IARC Monographs: No OSHA Regulated: No
- D. 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.
- E. 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.

## VI. Reactivity Data

- A. Stability: Stable
- B. Incompatibility: Strong oxidizing agents
- C. Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and other toxic vapors and gases that are common to thermal degradation of organic compounds.
- D. Hazardous Polymerization: Will not occur.

## VII. Spill or Leak Procedures

- A. 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.
- B. Waste Disposal Method: Incineration or other method approved for ignitable wastes in accordance with federal, state, and local regulations.
- C. This product contains chemicals subject to the reporting requirements of 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

## VIII. Special Protection Information

- A. 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.
- B. Respiratory Protection: With adequate ventilation, respiratory equipment should not be needed. If adequate ventilation is not afforded, wear respiratory equipment approved for organic vapors.
- C. 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.

## IX. Special Precautions

- A. Precautions to be taken in handling and storage: Store in area suitable for flammable mixtures. Recommended storage temperature is below 90 degrees F.
- B. 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.

-----  
 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.

