

Armstrong World Industries, Inc.
Human Resources Department
Liberty & Charlotte Streets, P. O. Box 3001
Lancaster, PA 17604

Telephone (717) 396-2729 or 396-2935

Division: Floor Products

Issued By: D. E. Doudar
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Date: 10/31/85

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

NFPA 704: Health = 2; Flammability = 3; Reactivity = 0 (ratings use five divisions from 0 to 4; 0 = no special hazard; 4 = severe hazard)

I. Product Information

- A. Product Name: B-89 Tile Adhesive
B. Chemical Name and Synonyms: N/A
C. Chemical or Product Family: Solvent-dispersed Adhesive

II. Ingredient Information

A. Ingredient	Approximate Percent	C.A.S. No.	PEL/TLV
VM&P Naphtha	27	8032-32-4	OSHA 500 ppm ACGIH 300 ppm
Petroleum Grade Asphalt	72	8052-42-9	ACGIH 5mg/m ³ as a fume
Polyolefin Fiber	1	N/A	N/A

- B. Precautionary Label Statement(s):
WARNING -- FLAMMABLE MIXTURE. DO NOT USE NEAR FIRE OR FLAME.
Contains petroleum naphtha. Use adequate ventilation -- open doors and windows -- keep air circulating. Prohibit smoking. Extinguish all flames -- pilot lights, blowtorches, etc. Avoid heat and sparks. Keep container closed. Do not take internally. Avoid prolonged breathing of vapor and prolonged contact with skin. Keep away from children. Use only for installing resilient tile.

III. Physical Data

- A. Appearance and Color: Black asphalt mastic with hydrocarbon solvent odor
B. Boiling Point (degrees F): 212-320
C. Vapor Pressure
mm Hg 20 degrees C): 10.45
D. Vapor Density
(Air = 1): 3.0
E. Solubility in Water: negligible
F. Specific Gravity
(H₂O = 1): 0.92
G. Percent Volatile by Weight (30 min. @ 275 degrees F): 27
H. Evaporation Rate
(Butyl Acetate = 1): N/K
I. pH: N/A

IV. Fire and Explosion Data

- A. Flash Point: 52 degrees F
B. Flammable Limits: LEL = 1.0; UEL = 7.0
C. Extinguishing Media: Carbon dioxide, dry chemical, Halon
D. Special Fire Fighting Procedures: Protect fire fighters from toxic products of combustion by wearing self-contained breathing apparatus.
E. 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. Exposure Limits: See Section II
- B. Effects of Overexposure:
 - 1. Inhalation: Irritation of respiratory tract, coughing, headache, dizziness, drowsiness, nausea, uncoordinated movements.
 - 2. Skin and Eyes: Excessive skin contact may cause drying and cracking of the skin, and result in dermatitis. Contact with eyes will cause irritation and defatting of tissue.
- C. First Aid Procedures:
 - 1. Inhalation: Remove to fresh air if exposed to excess concentrations of vapor. Seek medical attention if symptoms persist.
 - 2. 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.
 - 3. Ingestion: Do not induce vomiting. Call Poison Control Center. Get immediate medical attention.

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 Polymerizations: 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. Use absorbent to assist with the pick-up of material.
- B. Waste Disposal Methods: Incineration or other method approved for ignitable wastes in accordance with federal, state, and local regulations.

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.

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.