

# MATERIAL SAFETY DATA SHEET

(C)

Complies with OSHA's 29 CFR  
1910.1200 and State Hazard  
Communication Standards.

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## SECTION 1

PRODUCT IDENTITY: TUFF-COTE, Waterborne Urethane Wood Coating

DATE PREPARED: 6/28/91

NFPA/HMIS HAZARD CODES (minimal = 0; slight = 1, moderate = 2; serious = 3; severe = 4)  
Health: 1/1 Fire: 0/0 Reactivity: 0/0 Special: NA

## SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

<u>HAZARDOUS COMPONENTS</u>	<u>CAS #</u>	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>	<u>% BY WT.</u>
N-Methyl-2-pyrrolidone	872-50-4	None Est. *	None Est. *	10 max.
Methyl ethyl ketone (MEK)**	78-93-3	200 ppm 300 ppm STEL	200 ppm 300 ppm STEL	1.3
Triethylamine	121-44-8	10 ppm 15 ppm STEL	10 ppm 15 ppm STEL	2 max.
Ethylene glycol**	107-21-1	50 ppm (ceiling)	50 ppm (ceiling)	3

\*Supplier recommendation 100 ppm

\*\*SARA Title III Section 313 (40CFR372) reportable chemical

## SECTION 3: PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: 175-396°F  
VAPOR PRESSURE: less than 1 mm Hg @ 20°C  
VAPOR DENSITY (air = 1): heavier  
SOLUBILITY IN WATER: complete

SPECIFIC GRAVITY: 1.045  
PERCENT VOLATILE: 75  
EVAPORATION RATE: slower than ether  
pH: 9.0

APPEARANCE AND ODOR: White opaque liquid; mild urethane odor.

## SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None.

FLAMMABLE LIMITS: Lel 1.2% for Triethylamine

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, water fog or spray.

SPECIAL FIREFIGHTING PROCEDURES: Wear NIOSH approved self-contained breathing equipment. Cool exposed containers with water spray to prevent pressure buildup.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Material will not support combustion unless the water has evaporated.

## SECTION 5: REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY: Avoid strong acids, oxidizing agents as for any organic material.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal combustion products including oxides of carbon and oxides of nitrogen.

## SECTION 6: HEALTH HAZARD DATA

**ROUTES OF ENTRY/SIGNS AND SYMPTOMS OF EXPOSURE:** ACUTE: Eyes: may cause severe irritation. Skin: possible irritation with prolonged or repeated contact; triethylamine may be absorbed through skin and is moderately toxic by skin absorption or ingestion. Harmful amounts not expected in normal use. Inhalation: may cause irritation to nose, throat and lungs. High concentrations of vapors in poorly ventilated areas may cause headaches, nausea, dizziness, drowsiness. Ingestion: may be harmful if swallowed.

**CHRONIC EFFECTS:** Prolonged skin contact causes dryness, redness and irritation.

**CARCINOGENS:** None under OSHA, IARC or NTP.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known.

**EMERGENCY AND FIRST AID PROCEDURES:** Eyes: flush with plenty of water for at least 15 minutes and get prompt medical attention. Wash skin thoroughly with soap and water. Remove contaminated clothing. Inhalation: move subject to fresh air. Assist breathing if needed. Get medical attention. Ingestion: DO NOT INDUCE VOMITING. Call physician immediately.

## SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

**SPILL OR LEAK PROCEDURES: SMALL SPILLS:** Recover liquid with wet mop or wet/dry vacuum. Flush residue to sewer with water. **LARGE SPILLS:** Dike and contain spill with inert material (sand, earth, etc.) and transfer to container for disposal. Flush area with water. Cleanup spills promptly. Use care, as floor may become slippery.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with State, Federal and local regulations. Discarded product is not a hazardous waste under RCRA (40CFR261)

**HANDLING AND STORING:** Should not be stored below 35°F. Do not leave containers open.

**OTHER PRECAUTIONS:** Avoid contact with eyes and prolonged or repeated contact with skin. Use with adequate ventilation. Keep out of reach of children.

## SECTION 8: CONTROL MEASURES

**RESPIRATORY PROTECTION:** Not normally required. In the absence of adequate mechanical ventilation, NIOSH approved organic vapor respirator required if vapors or mists exceed PEL or TLV.

**VENTILATION:** As needed to maintain PEL or TLV below stated limits.

**GLOVES:** Rubber, neoprene or vinyl recommended for prolonged or repeated contact.

**EYE PROTECTION:** Splashproof goggles recommended to eliminate the possibility of eye contact.

**OTHER PROTECTIVE EQUIPMENT:** As needed to minimize skin contact.

**WORK/HYGIENIC PRACTICES:** Wash skin thoroughly after handling. Do not wear clothing soaked with product. Launder contaminated clothing before reuse.

This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.