

MATERIAL SAFETY DATA

1. PRODUCT IDENTIFICATION

PRODUCT NAME: TRANSFIX
SYNONYMS: Polymer of Alpha-Pinene
CHEMICAL FAMILY: Pinene
GENERIC DESCRIPTION: Spreader-Sticker
MOLECULAR WEIGHT:

Date Last Changed: 9/14/00

2. HAZARDOUS INGREDIENTS

<u>OSHA REGULATED COMPONENTS</u>	<u>COMPONENTS</u>	<u>CAS. NO.</u>	<u>WT%</u>	<u>EXPOSURE LIMITS</u>
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Components are listed on T.S.C.A. Inventory.

Maximum of 1 ppm Ethylene Oxide (EO) (75-21-8) May be present in the product.

The OSHA PEL and ACGIH TLV for EO is 1 ppm.

3. EFFECTS OF OVEREXPOSURE

EYE: IRRITATION CAN OCCUR CAUSING REDNESS OR SWELUNG.
SKIN: SHORT AND LONG TERM EXPOSURE CAN IRRITATE.
INHALATION: NO IRRITATION TO EYES AND RESPIRATORY PASSAGES.
ORAL: SMALL AMOUNTS BY FINGER TO MOUTH SHOULD NOT INJURE. SWALLOWING EXCESSIVE AMOUNTS MAY INJURE.

THE ABOVE LISTED POTENTIAL EFFECTS OF OVEREXPOSURE ARE BASED ON ACTUAL DATA. RESULTS OF STUDIES PERFORMED UPON SIMILAR COMPOSITIONS, COMPONENT DATA AND/OR EXPERT REVIEW OF THE PRODUCT, OVEREXPOSURE TO ANY CHEMICAL MAY RESULT IN ENHANCEMENT OF PRE-EXISTING ADVERSE MEDICAL CONDITION AND ALLERGIC REACTIONS.

4. EMERGENCY FIRST AID

EYES: FLUSH IMMEDIATELY WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.
SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.
INHALATION: REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION IF NECESSARY.
INGESTION: CALL A PHYSICIAN IMMEDIATELY. DRINK 2 GLASSES OF WATER OR MILK.

5. REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: None known
POLYMERIZATION: Will not occur.
INCOMPATIBILITY: None known.
DECOMPOSITION: CO₂, CO.

6. PHYSICAL PROPERTIES

APPEARANCE AND ODOR: Clear to amber liquid, slight polyether odor.
BOILING POINT: Not determined.
MELTING POINT: Not determined.
VAPOR PRESSURE (mmg of Hg): Not determined.
SPECIFIC GRAVITY: 0.96 (+/- .05)
VAPOR DENSITY (AIR=1): NA
% VOLATILE (BY WGT.%): Negligible
EVAPORATION RATE (Ether = 1): Slower than butyl acetate.
SOLUBILITY IN WATER: Dispersible

7. NFPA HAZARD RATING (National Fire Protection Association)

Fire	1	FIRE:	Materials that must be preheated before ignition can occur.
Health	1	HEALTH:	Materials which on exposure should cause irritation only minor residual injury even if no treatment is given.
	0	REACTIVITY:	Materials which in themselves are normally stable, even under fire exposure conditions, and which are not reactive with water.
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Special			

8. FIRE AND EXPLOSION HAZARD INFORMATION

<u>FLASHPOINT:</u>	>200°F (Pensky-Martens closed cup ASTM D93)
<u>FLAMMABLE LIMITS:</u>	Not Available
<u>EXTINGUISHING MEDIA:</u>	Foam. Dry Chemical. CO2
<u>FIRE FIGHTING:</u>	Use alcohol-type or universal-type foams on larger fires. Smaller fires should be extinguished with carbon dioxide or dry chemical. Do not use water or foam directly on the fire. Use self-contained breathing apparatus with fighting any fire in an enclosed area.
<u>UNUSAL FIRE HAZARD:</u>	Burning may produce toxic fumes, carbon monoxide, carbon dioxide, aliphatic aldehydes, carboxylic acids and oxides of silicon.

9. SPECIAL PRECAUTIONS

<u>HANDLING AND STORAGE:</u>	Store in cool dry place. Keep in original container tightly closed. Do not reuse empty container.
<u>OTHER PRECAUTIONS:</u>	Keep out of reach of children.

10. SPECIAL PROTECTION INFORMATION

<u>RESPIRATORY PROTECTION:</u>	None required for normal use.
<u>VENTILATION:</u>	Normal room ventilation (mechanical) should be satisfactory.
<u>PROTECTIVE GLOVES:</u>	PVC-coated.
<u>EYE PROTECTION:</u>	Wear goggles or a face shield.
<u>OTHER PROTECTION:</u>	Full body protective suit, eye wash and safety shower

11. SPILL OR LEAK PROCEDURES

<u>SPILLS OR RELEASES:</u>	Material should be collected and disposed in proper manner. Avoid discharge to natural waters. Wear suitable protective equipment.
<u>WASTE DISPOSAL:</u>	Do not contaminate water, food or feed by storage or disposal. Dispose of in an approved waste disposal facility in accordance with all Federal, State and Local Regulations.
<u>CONTAINER DISPOSAL:</u>	Triple rinse (or equivalent) adding rinse water to application tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by local regulations.

12. REGULATORY INFORMATION

COMPOUNDS WHICH REQUIRE REPORTING UNDER SARA TITLE III

<u>Sara regulated compounds</u>	<u>% Wt.</u>	<u>CAS NO.</u>
No compounds present in quantities which are regulated.		

13. OTHER INFORMATION

WARNING! This product contains a detectable amount of ethylene oxide, which is known to the State of California to cause cancer and/or reproductive toxicity.

Ethoxylated products may contain residual amounts of ethylene oxide (EO) which can accumulate in the container headspace and be released into the ambient environment. This process is enhanced when the product is agitated, as during tank car loading and unloading, and blending operations. Ethylene oxide causes tumors in laboratory animals. The Occupational Safety and Health Administration (OSHA) Permissible Exposure Level (PEL) for EO is 1 ppm for an eight-

hour time weighted average exposure. The standard regulates occupational exposure to EO from all sources, including products containing residual EO. It is the responsibility of the employer to comply with OSHA ethylene oxide standard (29 CFR 1910.1047).

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The recommendation for safe handling and protection procedures are believed to be generally suitable for the standard use of this compound. However, each user should identify his intended uses of this material and determine whether they are appropriate. All data included in this document is released as typical values and should not be utilized to determine the suitability of this material for a particular use or purpose. No warranty, either expressed or implied, is hereby made, nor do we give permission, inducement, or recommendations to practice any patented invention without a license. All data is offered for consideration, investigation and verification purposes only.