

TDI-KNOTSEALER
TDi Fast Trak Hair Knot & Tape Tab
Sealer, 4 ounces

TDI-KNOTSEALER2OZ
TDi Fast Trak Hair Knot & Tape Tab
Sealer, 2 ounces

MSDS for ACETONE-ALCOHOL MIXTURE

APOLLO

1-PRODUCT IDENTIFICATION - TDI FAST TRACK TAPE TAB AND KNOT

PRODUCT NAME: ACETONE-ALCOHOL MIXTURE
FORMULA: MIXTURE: (CH₃)₂CO + CH₃CH₂OH
FORMULA WT: .00
CAS NO:
COMMON SYNONYMS: MIXTURE: ACETONE + ETHANOL
PRODUCT CODES: A141
EFFECTIVE: 11/12/86
REVISIONS: # 02

PRECAUTIONARE LABELING

HEALTH - 3 SEVERE (POISON)
FLAMMABILITY - 3 SEVERE (FLAMMABLE)
REACTIVITY - 2 MODERATE
CONTACT - 1 SLIGHT

HAZARD RATINGS ARE 0 TO 4 (0=NO HAZARD; 4=EXTERME HAZARD).

LABORATORY PROTECTIVE EQUIPMENT

GOGGLES & SHEILD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER

PERCATIONARY LABEL STATEMENTS

POSISON DANGER
EXTREMELY FLAMMABLE
CAUSES IRRITATION
HARMFUL IF INHALED
MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED
KEEP AWAY FROM HEAT, SPARKS, FLAME. DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID BREATHING VAPOR. KEEP IN TIGHTLY CLOSED CONTAINER. USE WITH ADEQUATE
VENTILATION. WASH THROUGHLY AFTER HANDLING. IN CASE OF FIRE, USE ALCOHOL FOAM, DRY
CHEMICAL, CARBON DIOXIDE -WATER MAY BE INEFFECTIVE. FLUSH SPILL AREA WITH WATER
SPRAY.

2-HAZARDOUSE COMPONENTS

EMERGENCY RESPONSE NUMBER
1-800-424-9300

COMPONENT	% CAS NO.
ACETONE	45-55 67-64-1
ETHANOL	45-55 64-17-5
2-PROPANOL	3-7 67-63-0
METHANOL	3-7 67-56-1

BOILING POINT: N/A VAPOR PRESSURE(MM HG): N/A
MELTING POINT: N/A VAPOR DENSITY(AIR=1): N/A
SPECIFIC GRAVITY: 0.79 EVAPORATION RATE: N/A
(H₂O=1) (BUTYL ACETATE=1)

SOLUBILITY(H₂O): COMPLETE (IN ALL PROPORTIONS)% VOLATILES BY VOLUME: 100

APPEARANCE & ODOR: CLEAR, COLORLESS LIQUID WITH PLEASANT OR SWEET ODOR.

4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (CLOSED CUP): -1 C (30 F) NFPA 704M RATING: 1-3-0

FLAMMABLE LIMITS: UPPER - 19.0 % LOWER - 2.6 %

FIRE EXTINGUISHING MEDIA

USE ALCOHOL FOAM, DRY CHEMICAL OR CARBON DIOXIDE.
(WATER MAY BE INEFFECTIVE.)

SPECIAL FIRE-FIGHTING PROCEDURES

FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE. MOVE CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK. USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL.

UNUSUAL FIRE & EXPLOSION HAZARDS

VAPORS MAY FLOW ALONG SURFACES TO DISTANT IGNITION SOURCES AND FLASH BACK. CLOSED CONTAINERS EXPOSED TO HEAT MAY EXPLODE. CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRE.

TOXIC GASES PRODUCED

CARBON MONOXIDE, CARBON DIOXIDE

5 - HEALTH HAZARD DATA

TLV, PEL AND TOXICITY RESULTS ARE LISTED FOR ABSOLUTE ETHANOL. THE LISTED HEALTH INFORMATION IS BASED ON BOTH ETHANOL AND ACETONE.

THRESHOLD LIMIT VALUE (TLV/TWA): 1900 MG/M³ (1000 PPM)

PERMISSIBLE EXPOSURE LIMIT (PEL): 1900 MG/M³ (1000 PPM)

TOXICITY: LD₅₀ (ORAL-RAT)(MG/KG) - 7060
LD₅₀ (IPR-RAT)(MG/KG) - 4070
LD₅₀ (IV-RAT) (MG/KG) - 1440
LC₅₀ (INHAL-MOUSE) (G/M³) - 39

CARCINOGENICITY: NTP: NO IARC: NO Z LIST: NO OSHA REG: NO

EFFECTS OF OVEREXPOSURE

VAPORS MAY BE IRRITATING TO EYES, NOSE AND THROAT.
INHALATION OF VAPORS MAY CAUSE HEADACHE, NAUSEA, VOMITING, DIZZINESS,
DROWSINESS, IRRITATION OF RESPIRATORY TRACT, AND LOSS OF CONSCIOUSNESS.
LIQUID MAY CAUSE PERMANENT EYE DAMAGE.
CONTACT WITH SKIN HAS A DEFATTING EFFECT, CAUSING DRYING AND IRRITATION.
INGESTION MAY CAUSE NAUSEA, VOMITING, HEADACHES, DIZZINESS,
GASTROINTESTINAL IRRITATION.
CHRONIC EFFECTS OF OVEREXPOSURE MAY INCLUDE KIDNEY AND/OR LIVER DAMAGE.

TARGET ORGANS

RESPIRATORY SYSTEM, SKIN

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

NONE IDENTIFIED

ROUTES OF ENTRY

INHALATION, INGESTION, SKIN CONTACT, EYE CONTACT

EMERGENCY AND FIRST AID PROCEDURES

CALL A PHYSICIAN.

IF SWALLOWED, IF CONSCIOUS, GIVE LARGE AMOUNTS OF WATER. INDUCE VOMITING.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL

RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT
LEAST 15 MINUTES. FLUSH SKIN WITH WATER.

6 - REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: HEAT, FLAME, OTHER SOURCES OF IGNITION,
SUNLIGHT AND ULTRAVIOLET LIGHT

INCOMPATIBLES: STRONG OXIDIZING AGENTS, ALKALI METALS,
ACETYL CHLORIDE, ALUMINUM,
ALKALIES, CARBONATES, STRONG BASES, AMINES,
HALOGEN ACIDS AND HALOGEN COMPOUNDS,
STRONG ACIDS, ESP. SULFURIC, NITRIC, HYDROCHLORIC

DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE

7 - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE

WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.
SHUT OFF IGNITION SOURCES; NO FLARES, SMOKING OR FLAMES IN AREA. STOP LEAK
IF YOU CAN DO SO WITHOUT RISK. USE WATER SPRAY TO REDUCE VAPORS. TAKE UP
WITH SAND OR OTHER NON-COMBUSTIBLE ABSORBENT MATERIAL AND PLACE INTO

CONTAINER FOR LATER DISPOSAL. FLUSH AREA WITH WATER.

DISPOSAL PROCEDURE

DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

EPA HAZARDOUS WASTE NUMBER: U002 (TOXIC WASTE)

8 - PROTECTIVE EQUIPMENT

VENTILATION: USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

RESPIRATORY PROTECTION: RESPIRATORY PROTECTION REQUIRED IF AIRBORNE CONCENTRATION EXCEEDS TLV. AT CONCENTRATIONS UP TO 5000 PPM, A CHEMICAL CARTRIDGE RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE IS RECOMMENDED. ABOVE THIS LEVEL, A SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.

EYE/SKIN PROTECTION: SAFETY GOGGLES AND FACE SHIELD, UNIFORM, PROTECTIVE SUIT, RUBBER GLOVES ARE RECOMMENDED.

9 - STORAGE AND HANDLING PRECAUTIONS

SPECIAL PRECAUTIONS

BOND AND GROUND CONTAINERS WHEN TRANSFERRING LIQUID. KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL, DRY, WELL-VENTILATED, FLAMMABLE LIQUID STORAGE AREA.

10 - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

DOMESTIC (D.O.T.)

PROPER SHIPPING NAME FLAMMABLE LIQUID, N.O.S. (ACETONE-ALCOHOL MIXTURE (1:1)
HAZARD CLASS FLAMMABLE LIQUID
UN/NA UN1993
LABELS FLAMMABLE LIQUID

INTERNATIONAL (I.M.O.)

PROPER SHIPPING NAME FLAMMABLE LIQUIDS, N.O.S. (ACETONE-ALCOHOL MIXTURE (1:1)
HAZARD CLASS 3.2
UN/NA UN1993
LABELS FLAMMABLE LIQUID