

MATERIAL SAFETY DATA SHEET

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: ATECH T-DRY-A
SYNONYM:
CHEMICAL FAMILY: POLYURETHANE FOAM
DATE: DECEMBER 1, 1998

SECTION II - HAZARDOUS INGREDIENTS AND OTHER COMPONENTS

<u>INGREDIENT</u> <u>PERCENT</u>	<u>CAS #</u>	<u>PEL(PPM)</u>	<u>STEL</u>	<u>TLV</u>	
2,4 TOLUENE DIISOCYANATE	584-84-9	0.02	0.02	0-0.75%	
2,6 TOLUENE DIISOCYANATE	91-08-7	N/D	N/D	0-	
0.20% POLY (ETHYLENE OXIDE)-TDI					
TRIMETHYLOLPROPANE POLYMER	53426-99-6	N/A	N/A	50-	
80% 2-(2-ETHOXYETHOXY-ETHYL) ACETATE	112-15-2	N/D	N/D	20-	
40% DISBUTYL MALEATE	105-76-0	N/D	N/D	N/D	10-25%

THIS PRODUCT CONTAINS MATERIAL THAT IS SUBJECT TO THE REPORTING REQUIREMENTS SARA TITLE III SECTION 313 (SEE SECTION 11 OF THIS MSDS)

SECTION III - PHYSICAL DATA

PHYSICAL FORM: LIQUID
ODOR: SLIGHTLY SWEET
VAPOR PRESSURE: 0.2 MMHG @69⁰ F (20⁰ C)
SPECIFIC GRAVITY: 1.074 @ 68/39.8⁰ F (20/40⁰ C)
BOILING POINT: 418⁰ F (214⁰ C) TEMPERATURE ABOVE 350⁰ F (177⁰ C) CAN POLYMERIZE OR DECOMPOSE.
SOLUBILITY IN WATER: SOLUBLE IN WATER. REACTS FAST (<1 MINUTE) WITH WATER TO LIBERATE CO2 GAS.
OTHER SOLUBILITIES: MIXABLE WITH MOST ORGANIC SOLVENTS (KETONES, BENZENE, WAXES AND OILS).

COLOR: PALE YELLOW
FREEZING POINT: N/D
VISCOSITY: 650 CPS ± 200 @ 68⁰ F (20⁰ C)
BULK DENSITY: 8.96 LBS/GAL

ATECH T-DRY: PART A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : 225⁰ F

LEL: 0.9%

UEL: 9.5%

EXTINGUISHING MEDIA: FOR SMALL FIRES USE DRY CHEMICAL OR CO₂. FOR LARGE FIRES USE FOG OR REGULAR FOAM.

UNUSUAL FIRE OR EXPLOSION HAZARDS: VAPORS ARE HEAVIER THAN AIR AND MAY COLLECT IN LOW LYING AREAS. CONTAINER MAY EXPLODE IN HEAT OR FIRE. EXPOSURE TO FLAMES OR ARC WELDING CAN PRODUCE HIGHLY TOXIC GASES DUE TO THE THERMAL DECOMPOSITION OR COMBUSTION OF THE PRODUCT (SEE SECTION 5).

FIRE FIGHTING PROCEDURES: SINCE FIRE MAY PRODUCE TOXIC THERMAL DECOMPOSITION PRODUCTS, WEAR A SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACE PIECE OPERATED IN PRESSURE-DEMAND OR POSITIVE- PRESSURE MODE. APPLY COOLING WATER TO SIDES OF CONTAINER UNTIL WELL AFTER FIRE IS OUT. DO NOT RELEASE FIRE WATER RUNOFF TO SEWERS OR WATER WAYS.

SECTION V -REACTIVITY DATA

STABILITY: IS STABLE AT ROOM TEMPERATURE IN CLOSED CONTAINERS UNDER NORMAL STORAGE AND HANDLING CONDITIONS.

HAZARDOUS POLYMERIZATION: CAN OCCUR. CONTACT WITH MOISTURE, OTHER MATERIALS WHICH REACT WITH ISOCYANATES OR TEMPERATURES ABOVE 350⁰ F (177⁰ C) MAY CAUSE POLYMERIZATION.

INCOMPATIBILITY: IS INCOMPATIBLE WITH WATER, AMINES, STRONG BASES AND ALCOHOLS.

HAZARDOUS PRODUCTS OF DECOMPOSITION: THERMAL DECOMPOSITION CAN PRODUCE CARBON MONOXIDE (CO), OXIDES OF NITROGEN, TRACES OF CYANIC ACID AND TDI VAPORS.

SECTION VI-FIRST AID PROCEDURES

EYES: IMMEDIATELY FLUSH EYES WITH A DIRECT STREAM OF WATER FOR AT LEAST 15 MINUTES, FORCIBLY HOLDING EYELIDS APART TO ENSURE COMPLETE IRRIGATION OF ALL EYE AND LID TISSUE. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN: QUICKLY REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED AREAS WITH PLENTY OF SOAP AND WATER. A SOOTHING OINTMENT MAY BE APPLIED TO IRRITATED SKIN AFTER THOROUGH CLEANSING. SEEK MEDICAL ATTENTION.

ATECH T-DRY: PART A

INHALATION: REMOVE EXPOSED PERSON TO FRESH AIR AND SUPPORT BREATHING IF NECESSARY.

INGESTION: DO NOT INDUCE VOMITING. GIVE 1 TO 2 CUPS OF MILK OR WATER TO DRINK. IF VOMITING IS INEVITABLE, PREVENT ASPIRATION BY KEEPING THE VICTIMS HEAD BELOW THE KNEES. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.

NOTE TO PHYSICIAN:

EYES: STAIN FOR EVIDENCE OF CORNEAL INJURY. IF CORNEA IS BURNED, INSTILL ANTIBIOTIC STEROID PREPARATION FREQUENTLY. WORKPLACE VAPORS HAVE PRODUCED REVERSIBLE CORNEAL EPITHELIAL EDEMA IMPAIRING VISION.

SKIN: THIS MATERIAL IS A KNOWN SKIN SENSITIZER. TREAT SYMPTOMATICALLY AS FOR CONTACT DERMATITIS OR THERMAL BURNS. IF BURNED, TREAT AS A THERMAL BURN.

INGESTION: TREAT SYMPTOMATICALLY. THERE IS NO SPECIFIC ANTIDOTE. INDUCING VOMITING IS CONTRAINDICATED OF IRRITATING NATURE OF THIS PRODUCT.

RESPIRATORY: THIS MATERIAL IS A KNOWN PULMONARY SENSITIZER. TREAT ISOCYANATE CONTAINING PRODUCTS.

EXPOSURE LIMITS HAVE NOT BEEN ESTABLISHED FOR THIS MATERIAL. USE THE EXPOSURE LIMITS IN SECTION II FOR 2,4 TDI: OSHA PEL: 0.02 PPM STEL
ACGIH TLV:02.02 PPM STEL

SECTION VII- EMPLOYEE PROTECTION RECOMMENDATIONS

GOGGLES: WEAR A FACE SHIELD (8 INCH MIN.) PER OSHA EYE AND FACE PROTECTION REGULATIONS (20 CFR 1910.133).

RESPIRATOR: BECAUSE OF THE LOW VAPOR PRESSURE, VENTILATION IS USUALLY SUFFICIENT TO KEEP THE VAPORS BELOW THE TLV AT ROOM TEMPERATURES. EXCEPTIONS ARE WHEN THE MATERIAL IS SPRAYED OR HEATED. IF AIRBORNE CONCENTRATIONS WOULD EXCEED THE TLV, FOLLOW OSHA RESPIRATOR REGULATIONS (29 CFR 1910.134) AND IF NECESSARY WEAR MAHA/NIOSH APPROVED RESPIRATOR. IF INADEQUATE VENTILATION IN CONFINED SPACES, USE SUPPLIED AIR RESPIRATOR OR SELF CONTAINED BREATHING APPARATUS WITH A FULL FACE PIECE OPERATED IN PRESSURE DEMAND OR POSITIVE-PRESSURE MODE.

CLOTHING: WEAR CHEMICALLY PROTECTIVE GLOVES, BOOTS AND APRONS TO PREVENT REPEATED OR PROLONGED SKIN CONTACT. VITON, NEOPRENE AND BUTYL RUBBER ARE RECOMMENDED MATERIALS FOR PROTECTED GEAR.

ATECH T-DRY: PART A

VENTILATION: PROVIDE GENERAL AND LOCAL EXHAUST VENTILATION SYSTEMS TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW OSHA PEL LEVEL.

OTHERS: NEVER EAT, DRINK OR SMOKE IN THE WORK AREA. PRACTICE GOOD PERSONAL HYGIENE AFTER USING THIS MATERIAL.

SECTION VIII-SPILL AND LEAK PROCEDURES

NOTIFY SAFETY PERSONNEL, ISOLATE AND VENTILATE THE AREA. STAY UP WIND. REMOVE ALL IGNITION SOURCES. FOR SMALL SPILLS ABSORB WITH SAND OR OTHER ABSORBENTS AND PLACE SUITABLE CONTAINERS FOR LATER DISPOSAL. FOR LARGE SPILLS, DIKE AHEAD FOR A LATER DISPOSAL OR RECLAMATION. FOR DISPOSAL, FOLLOW APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION IX-SPECIAL PRECAUTIONS

STORAGE: PREVENT PHYSICAL DAMAGE TO CONTAINERS. STORE IN STEEL DRUMS IN A COOL, DRY WELL VENTILATED AREA, AWAY FROM SUNLIGHT AND INCOMPATIBLES AND FOOD.

SECTION X-TRANSPORTATION

DOT SHIPPING NAME: N/A
ID NO.: N/A
PACKING INST.: N/A
FOOD

DOT HAZARD CLASS: N/A
DOT PACKING GROUP: N/A
DOT LABEL: KEEP AWAY FROM

SECTION XI-FEDERAL REGULATORY INFORMATION

SARA TITLE III:

SECTION 302: 2,4 TOLUENE DIISOCYANATE CAS # 584-84-9

2,6 TOLUENE DIISOCYANATE CAS # 91-08-7

SECTION 311/312: IMMEDIATE HEALTH HAZARD, DELAYED HEALTH HAZARD,
REACTIVE HAZARD

SECTION 313: 2,4 TOLUENE DIISOCYANATE CAS # 584-84-9

2,6 TOLUENE DIISOCYANATE CAS # 91-08-7

2-(2ETHOXYETHOXY) ETHYL ACETATE CAS # 112-15-2

CERLA REPORTABLE QUANTITY: 100 lbs FOR TDI

RCRA: TDI IS LISTED AS A HAZARDOUS WASTE (U-223)

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: ATECH T-DRY-B
SYNONYM: WATER
CHEMICAL FAMILY: WATER
DATE: DECEMBER 1,1998

SECTION II - INGREDIENTS AND OTHER COMPONENTS

INGREDIENT	% BY WEIGHT	EXPOSURE LIMITS
WATER	100%	NONE

SECTION III - PHYSICAL DATA

BOILING POINT: 212°F **SP GR:** 1.0
% VOLATILE BY WT: 0%
SOLUBILITY IN WATER: UNLIMITED

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