

MATERIAL SAFETY DATA SHEET

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Appleton, WI 54911 ISSUE DATE- 10/6/99

SECTION I: PRODUCT IDENTIFICATION

PRODUCT NAME- ARISTOTHANE

PRODUCT #- 2300 PART B

PRODUCT CLASS- Aliphatic Polyisocyanate solution

HMIS CODE HEALTH-1 , FIRE-2, REACTIVITY-0

HAZARD RATING: 0=LEAST, 1=SLIGHT, 2= MODERATE, 3=HIGH, 4= EXTREME

SECTION II: HAZARDOUS INGREDIENTS CAS % PEL TLV

Homopolymer of HDI	(28182-81-2)	>50		
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Proprietary Solvent		<10		
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1-methoxy-2-acetoxyp propane	(000108-65-6)	<10		
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SECTION III: PHYSICAL DATA

BOILING RANGE: > 300F

EVAPORATION RATE VS BUTYL ACETATE - slower

VAPOR DENSITY VS AIR: heavier

SOLUBILITY IN WATER: soluble

APPEARANCE AND ODOR: White liquid, mild odor

PERCENT VOLATILE BY VOLUME: <25

WEIGHT PER GALLON: 9.3 lb/gal

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (F): >200F

EXTINGUISHING MEDIA: water spray, dry chemical, foam or carbon dioxide

HAZARDOUS DECOMPOSITION PRODUCTS: carbon dioxide, carbon monoxide

SPECIAL FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus and full protective clothing

UNUSUAL FIRE AND EXPLOSION HAZARDS: Emits toxic fumes under fire conditions. Closed container may explode when exposed to extreme heat or burst when contaminated with water (CO₂ evolved).

SECTION V: HEALTH HAZARD DATA - EFFECTS OF OVER EXPOSURE

INGESTION: May can cause irritation and possible corrosive action in the digestive tract.

INHALATION: May can cause irritation with symptoms of sore throat, coughing, runny nose, and shortness of breath.

Repeated exposure to isocyanates may cause certain individuals to develop isocyanate sensitization.

SKIN CONTACT: May cause irritation, rash, redness, edema. Prolonged or repeated contact may cause skin sensitization.

EYE CONTACT: May can cause irritation, pain, reddening, and swelling.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Asthma and other respiratory disorders, skin allergies, eczema.

EMERGENCY FIRST AID PROCEDURES

EYE CONTACT: flush with water for 15 minutes, lifting upper and lower lids occasionally, and seek medical attention immediately.

SKIN CONTACT: wash immediately with soap and water, remove contaminated clothing and launder before reuse. Seek medical attention for severe exposures.

INGESTION: Do not induce vomiting. If conscious, give 1 to 2 cups of water or milk. .Seek medical attention.

INHALATION: Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Treatment is essentially symptomatic. Consult physician.

SECTION VI: REACTIVITY DATA

STABILITY: stable

HAZARDOUS POLYMERIZATION: May occur. Contact with moisture or other materials which react with isocyanates, or temperatures over 400 F (204 C) may cause polymerization.

INCOMPATIBILITIES: Water, amines, strong bases, alcohols, metal compounds and surface active materials.

DECOMPOSITION PRODUCTS: By high heat and fire: Carbon dioxide, carbon monoxide, oxides of nitrogen, HCN, HDI.

SECTION VII: SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Evacuate nonessential personnel. Remove all sources of ignition and ventilate area. Wear appropriate personal protective equipment, contain spill, cover the spill with sawdust, vermiculite, or other absorbent material. Pour decontamination solution over the spill area and allow to react for at least 10 minutes. Collect material in open containers and add further amounts of decontamination solution. Remove containers to a safe place, cover loosely, and allow to stand for 24 to 48 hours. Wash down spill area with decontamination solution. **DECONTAMINATION SOLUTIONS:** nonionic surfactant Union carbide's Tergitol TMN-10 (20%) and water (80%): concentrated ammonia (3 – 8 %), detergent (2%), and water (90-95 %).

WASTE DISPOSAL: Dispose of in accordance with federal, state and local regulations. Incineration is the preferred method.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY: If airborne concentrations pose a health hazard, become irritating use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29 CFR 1910.134. For emergencies such as fire, use a positive pressure self contained breathing apparatus. **VENTILATION:** local exhaust recommended when appropriate to control employee exposure.

PROTECTIVE CLOTHING: Clothing suitable to prevent skin contact. Safety glasses. Rubber Gloves.

OTHER PROTECTIVE EQUIPMENT: Use local exhaust ventilation or respiratory protection to maintain minimum exposure. Eye wash and shower to be available.

SECTION IX: SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: avoid skin contact, remove and launder contaminated clothing. Empty containers may contain residual harmful so all hazard precautions should be observed.

NOTE: To the best of our knowledge, the information contained herein is accurate. However C.D. Products. Inc assumes no liability whatsoever for the accuracy or completeness of the information contained herein. The final determination of

suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.