

MATERIAL SAFETY DATA SHEET
U.S. Department of Labor
Occupational Safety & Health Administration

ANDEK 950

SECTION 1 - IDENTIFIERS

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 TRADE NAME: Andek 950
 CHEMICAL FAMILY: Aromatic Isocyanate

SECTION 2 – HAZARD IDENTIFICATION & EMERGENCY OVERVIEW

Emergency Overview: Toxic gases may be given off during burning or thermal decomposition. Closed container may forcibly rupture under extreme heat or when contents have been contaminated with water. Causes skin and eye irritation and/or burns. May cause allergic skin reaction or skin sensitization. May cause respiratory tract irritation, allergic reaction, or sensitization. Causes severe gastrointestinal damage if swallowed.

Effects of Overexposure:

SKIN: Prolonged or repeated contact may cause skin irritation and/or result in skin sensitization or other allergic response.
 EYES: Irritation and redness from direct eye contact.
 BREATHING: May cause irritation to upper respiratory tract.
 SWALLOWING: May cause gastrointestinal irritation or ulceration. May cause burns of mouth or throat.

SECTION 3 – COMPOSITION

COMPONENT	CAS #	APPROX %	TLV
Diphenylmethane Di-Isocyanate	26447-40-5	80	0.02 ppm
Aromatic Sulfonic Ester	77075-94-9	20	25.0 ppm

KNOWN CARCINOGENS OR MUTAGENS - TYPE & DEFINITION – None known

SECTION 4 – FIRST AID MEASURES

SKIN: Remove contaminated clothing. Wash affected areas thoroughly with soap and water.
 EYES: Flush with clean lukewarm water (low pressure) for at least 15 minutes and obtain medical attention immediately.
 BREATHING: Remove victim to fresh air. Administer oxygen or artificial respiration as needed. Obtain medical attention. Asthmatic type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic.
 SWALLOWING: Do NOT induce vomiting. Give 250 ml of milk or water to drink and get immediate medical attention.

SECTION 5 – FIRE & EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 390°F.

FLAMMABLE LIMITS: Non-flammable.

EXTINGUISHING MEDIA: Dry chemical; carbon dioxide; high expansion chemical foam; water spray for large fires.

SPECIAL FIRE FIGHTING PROCEDURES: Full emergency equipment with self-contained breathing apparatus should be worn by fire fighters.

UNUSUAL FIRE & EXPLOSION HAZARDS: At temperatures greater than 400°F, polymeric MDI can polymerize and decompose which can cause pressure build-up in closed containers. Explosive rupture is possible. Therefore, use cold water to cool fire-exposed containers.

DECOMPOSITION PRODUCTS: During a fire, MDI vapors and other irritating, highly toxic gasses may be generated by thermal decomposition or combustion.

SECTION 6 – SPILL OR LEAK PROCEDURES

Evacuate non-essential personnel. Ventilate the area. Equip clean-up crew with appropriate protective equipment. Dike or impound spilled material and control further spillage if feasible. Cover spill with sawdust, or other absorbent material; pour liquid decontaminant over spillage, allow to react at least 10 minutes, collect material in open containers, add further amounts of decontamination solution. Remove containers to safe place; cover loosely and allow to stand for 24-48 hours. Wash down area with liquid decontaminant and flush spill area with water. Decontamination solutions: Ammonium hydroxide (0-10%); detergent (2-5%) and balance water; or solution of Union Carbide's Tergitol (TMN-10 (20%) and water (80%).

SECTION 7 – HANDLING & STORAGE

Store in tightly closed containers and protect from moisture and foreign materials. Ideal storage temperature range is 50-81°F. If moisture enters container, pressure can build up which can cause a sealed container to pressurize and burst.

SECTION 8 – PERSONAL PROTECTION/EXPOSURE CONTROLS

RESPIRATORY PROTECTION (SPECIFY TYPE): Use an air-supplied respirator in confined areas and whenever the material is sprayed.

EYE PROTECTION: Safety glasses with side shields, splash goggles or face shield. Contact lenses should not be worn.

SKIN PROTECTION: Chemical resistant gloves.

OTHER PROTECTIVE EQUIPMENT: Safety showers and eyewash stations should be available.

PERSONAL HYGIENE: Wash thoroughly after using this product. Wash contaminated clothing thoroughly before re-use.

SECTION 9 - PHYSICAL DATA

BOILING POINT (F)	312°	SPECIFIC GRAVITY (H ₂ O=1)	1.14
VAPOR PRESSURE	1.4 x 10 ⁻⁴	PERCENT, VOLATILE BY VOLUME	Negligible
VAPOR DENSITY (AIR=1)	8.5	EVAPORATION RATE (N.B.A.=1)	0.2
SOLUBILITY IN WATER	Insoluble	pH (5% SLURRY)	Neutral

APPEARANCE & ODOR - Clear viscous liquid with slight aromatic odor.

SECTION 10 - REACTIVITY DATA

STABILITY: Stable.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with water, alcohols, amines and strong bases. Material can cause some corrosion to copper alloys and aluminum.

HAZARDOUS DECOMPOSITION PRODUCTS: By heat and fire: CO₂, CO, oxides of nitrogen, traces of HCN and MDI.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Moisture and materials which react with isocyanates. Avoid temperatures over 400°F.

SECTION 11 – TOXICOLOGICAL INFORMATION

See reference data for individual components.

SECTION 12 – ECOLOGICAL INFORMATION

See reference data for individual components.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state and federal regulations. Incineration is preferred method. DO NOT HEAT OR CUT EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

SECTION 14 – TRANSPORT INFORMATION

PROPER SHIPPING NAME:	Paint
HAZARD CLASS:	None
PACKING GROUP:	N/A
ID#:	N/A
RQ:	N/A

TRANSPORT LABELS REQUIRED: This material is not regulated by the D.O.T.

SECTION 15 – REGULATORY INFORMATION

See reference data for individual components.

SECTION 16 – OTHER INFORMATION (HMIS RATING)

Health	2
Flammability	1
Physical Hazard	1
Personal Protection	H

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