

# MATERIAL SAFETY DATA SHEET

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(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

THE OSHA HAZARD COMMUNICATION STANDARD 29CFR1910.1200 REQUIRES THAT THE INFORMATION CONTAINED ON THIS SHEET BE MADE AVAILABLE TO YOUR WORKERS.

INSTRUCT YOUR WORKERS TO HANDLE THIS PRODUCT PROPERLY.

<b>CHEMICAL NAME:</b>	1,6-HEXAMETHYLENE DIISOCYANATE Based POLYISOCYANATE		
<b>SYNONYMS:</b>	POLYMERIC HEXAMETHYLENE DIISOCYANATE	<b>CHEMICAL FAMILY:</b>	ALIPHATIC POLY ISOCY ANATE
<b>FORMULA:</b>	N/A	<b>MOLECULAR WEIGHT:</b>	@500
<b>TRADE NAME AND SYNONYMS:</b>	KRYSTALKOTE™ CURING AGENT		

## I. PHYSICAL DATA

<b>BOILING POINT (760mm. Hg):</b>	NOT ESTABLISHED	<b>FREEZING POINT:</b>	NOT ESTABLISHED
<b>SPECIFIC GRAVITY: (H<sub>2</sub>O=1)</b>	1.06	<b>VAPOR PRESSURE AT 20°C.:</b>	N/A
<b>VAPOR DENSITY: (air=1)</b>	N/A	<b>SOLUBILITY IN WATER (% by wt):</b>	INSOLUBLE
<b>PERCENT VOLATILES BY VOLUME:</b>	20-25%	<b>EVAPORATION RATE (Butyl Acetate=1):</b>	N/A
<b>APPEARANCE AND ODOR:</b>	CLEAR LIQUID, SOLVENT ODOR		

## II. HAZARDOUS INGREDIENTS

MATERIAL	PERCENTAGE	TLV (Units)
Homopolymer of HDI: CAS# 28182-81-2	75-80%	Not Established
XYLENE: CAS# 1330-20-7	@12.5%	100 P.P.M.
N-BUTYL ACETATE: CAS# 123-86-4	@12.5%	150 P.P.M.

## III. FIRE AND EXPLOSION HAZARD DATA

<b>FLASH POINT (test method):</b>	91°F ASTM D-3243	<b>AUTO-IGNITION TEMPERATURE:</b>	860°
<b>FLAMMABLE LIMITS IN AIR, % by volume:</b>	Lower: 1.8% / Upper: 11%		
<b>EXTINGUISHING MEDIA:</b>	DRY CHEMICAL, CARBON DIOXIDE, FOAM, WATER SPRAY		
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	SELF CONTAINED BREATHING APPARATUS & PROTECTIVE CLOTHING TO BE WORN BY FIRE FIGHTERS		
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	FLAMMABLE. KEEP AWAY FROM HEAT AND OPEN FLAME		

**EMERGENCY PHONE NUMBER:****USA 818-500-1921**

Prepared for **TradeWinds International Inc.**, Updated: JULY 2000

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**IV. HEALTH HAZARD DATA**

<b>THRESHOLD LIMIT VALUE (TLV):</b>	200 P.P.M.
<b>EFFECTS OF OVEREXPOSURE:</b>	IRRITATION OF MUCOUS MEMBRANE IN THE RESPIRATORY TRACT. BREATHING OBSTRUCTION.
<b>EMERGENCY AND FIRST AID PROCEDURES:</b>	<u>EYES:</u> FLUSH WITH CLEAN WATER FOR 20 MINUTES. <u>SKIN:</u> REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP & WATER. <u>INHALATION:</u> BREATHE FRESH AIR. ADMINISTER ARTIFICIAL RESPIRATION OR OXYGEN AS NEEDED. <u>CONTACT PHYSICIAN IMMEDIATELY.</u>

**V. REACTIVITY DATA**

<b>STABILITY:</b> <input type="checkbox"/> UNSTABLE <input checked="" type="checkbox"/> STABLE	<b>CONDITIONS TO AVOID:</b>	AVOID WATER, HEAT, SPARKS, OPEN FLAME. STORE IN A COOL PLACE.
<b>INCOMPATIBILITY (MATERIALS TO AVOID):</b>	H <sub>2</sub> O, AMINES, ALKALIS, ALCOHOL, METAL COMPOUNDS.	
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	CARBON MONOXIDE , CO <sub>2</sub> , OXIDES OF NITROGEN.	
<b>HAZARDOUS POLYMERIZATION:</b> <input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR	<b>CONDITIONS TO AVOID:</b>	WATER, HEAT, SPARKS, OPEN FLAME. STORE IN A COOL PLACE.

**VI. SPILL OR LEAK PROCEDURES**

<b>STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:</b>	DIKE OR IMPOUND SPILLED MATERIAL. COVER SPILL WITH <u>KRYSTALSORB</u> , SAWDUST, OR OTHER ABSORBENTS. POUR DECONTAMINATION SOLUTION OVER SPILL AREA AND ALLOW TO REST FOR 15 MINUTES.
<b>WASTE DISPOSAL METHOD:</b>	COLLECT MATERIAL IN OPEN CONTAINERS AND REMOVE TO A SAFE AREA. DISPOSE IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS. INCINERATION IS PREFERRED.

**VII. SPECIAL PROTECTION INFORMATION**

<b>RESPIRATORY PROTECTION (specify type)</b>	AS APPROVED FOR USE IN NOISH ENVIRONMENTS (indoors). OBSERVE OSHA REGULATIONS.		
<b>VENTILATION</b>	<b>LOCAL EXHAUST</b>	YES	<b>SPECIAL:</b>
	<b>MECHANICAL (general)</b>	FILTERED	<b>OTHER:</b>
<b>PROTECTIVE GLOVES</b>	YES	<b>EYE PROTECTION:</b> GOGGLES	
<b>OTHER PROTECTIVE EQUIPMENT</b>	SAFETY SHOWERS AND EYEWASH STATIONS		

**VIII. SPECIAL PRECAUTIONS**

<b>PRECAUTIONARY LABELING</b>	
<b>OTHER HANDLING AND STORAGE CONDITIONS</b>	KEEP AWAY FROM HEAT, SPARKS & OPEN FLAME. GROUND CONTAINER. STORE IN TIGHTLY CLOSED CONTAINER. IDEAL STORAGE TEMPERATURE 50°F TO 81°F.

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