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MATERIAL SAFETY DATA SHEET
MODEL-CAST FORMULA #4032-2, TAN
'A' SIDE
Updated November 2006

SECTION I - MATERIAL IDENTIFICATION

Trade name: Model-Cast #4032-2, TAN 'A' SIDE
CAS Chemical name: Mixture
Synonyms: None

SECTION II - HAZARDOUS INGREDIENTS

Components	CAS#	%	OSHA	TWA	PEL	STEL	ACGIH	TWA	TLV	STEL
4,4-Diphenylmethane Diisocyanate	101-68-8	64	mg/m3	NE	ppm	NE	mg/m3	0.051	mg/m3	NE
Catalytic Reformer Distillate	Unassigned	31	5 mg	NE	NE	NE	5 mg	NE	10 mg	NE

NE = not established See Section XI possible reporting requirements

SECTION III - HEALTH HAZARDS

GENERAL: No toxicity information is available on this specific preparation. This health hazard assessment is based on information that is available on the properties of the components.
ROUTES OF EXPOSURE: Can be absorbed through the skin, inhalation, eye contact and ingestion.
HEALTH HAZARDS: Skin contact can cause irritation. Inhalation can irritate the eyes, nose and respiratory passages. Eye contact will cause irritation. Ingestion is "practically nontoxic" but irritation can follow.
SIGNS AND SYMPTOMS OF EXPOSURE (acute effects): No irritation is likely to develop following short periods of contact with human skin. Irritation can develop following prolonged periods of contact with human skin. Inhalation can cause chronic cough, tightness of chest and difficulty breathing. Contact with eyes will cause irritation. If swallowed can cause irritation of the mouth on down to the stomach.
SIGNS AND SYMPTOMS OF EXPOSURE (possible long term effects): As a result of previous repeated overexposures or a large single dose certain individuals may develop a sensitization which will cause them to react to later exposure well below the TLV.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None determined.

SECTION IV - EMERGENCY FIRST AID PROCEDURES

SKIN CONTACT: Immediately flush skin with plenty of water for at least fifteen minutes. Remove contaminated clothing and shoes. Wash clothing and shoes before re-use. Get medical attention if irritation persists.
INHALATION: Remove to fresh air. Administer oxygen if breathing is difficult. Administer artificial respiration if not breathing. Get medical attention immediately.
EYE CONTACT: Immediately flush eyes with plenty of water for at least fifteen minutes. Lift lower and upper eyelids occasionally. Get medical attention immediately.
INGESTION: Do not induce vomiting! Give large quantities of water or milk. Do not give anything by mouth to an unconscious person. If vomiting occurs administer additional water. Get medical attention immediately.

SECTION V - FIRE AND EXPLOSION DATA

CHARACTERISTICS: Flash point: >212 degrees F, Upper explosion limit (UEL): ND, Lower explosion limit (LEL): ND, Auto-ignition temperature: ND, Flash point methods: COC
EXTINGUISHING METHOD: Water spray, foam, carbon dioxide or dry chemicals. If water is used must use large quantities. The reaction between water and hot isocyanate may be vigorous.
SPECIAL FIRE FIGHTING PROCEDURES: Foam, dry chemical or carbon dioxide. Full emergency equipment should be worn.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Water contamination will produce carbon dioxide. Do not reseal contaminated containers as pressure buildup may rupture them.

SECTION VI - REACTIVITY HAZARD DATA

CHEMICAL STABILITY: Stable
INCOMPATABILITY (materials to avoid): Will react with any materials containing active hydrogen, such as water, alcohol, ammonia, alkalis and acids. The reaction is very slow at less than 50 degrees C, but is accelerated at higher temperatures.
HAZARDOUS DECOMPOSITION PRODUCTS (from burning, heating, or reaction with other materials): Combustion products are carbon dioxide, nitrogen oxides, ammonia and trace amounts of hydrogen cyanide.
HAZARDOUS POLYMERIZATION: May occur at very high temperatures.
CONDITIONS TO AVOID: High temperatures in the presence of alkalis.

SECTION VII - SPILL, LEAK AND DISPOSAL DATA

CLEAN UP PROCEDURES: Spills and leaks should be stopped, contained and cleaned up immediately. Ventilate area and do not allow to get into water system. Recommend absorbing with sawdust or other absorbent.
OTHER EMERGENCY ADVICE: None
WASTE DISPOSAL: Dispose of neutralized material in an industrial sewage treatment facility. Care must be taken when using or disposing of chemical materials and their containers to prevent environmental contamination. It is your duty to dispose of the chemical materials and their containers with the clean air act, the resource conservation and recovery act, as well as any other relevant federal, state, or local laws and regulations regarding disposal in your location.

SECTION VIII - PROTECTIVE MEASURES

SKIN PROTECTION: Wear gloves and clothing including shoes.
EYE PROTECTION: Use chemical goggles or full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.
HYGENIC PRACTICES: Wash at the end of each working session and before eating, drinking or using the toilet.

SECTION IX - STORAGE AND HANDLING

STORAGE: Keep in original container. Store in a cool, dry and well ventilated area. Protect from physical damage. Keep top closed tightly when not in use.
HANDLING: Wear safety goggles and rubber gloves. Never touch eyes or face with hands or gloves that may be contaminated with product. Do not eat, drink or smoke while handling product.
OTHER PRECAUTIONS: Carefully read all instructions on label of containers and product bulletin before handling this product. Make sure that all engineering and personal protective equipment is in working order. Keep out of reach of children.

SECTION X - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Liquid
COLOR:	Clear, colorless to slightly yellow
ODOR:	Mild fruity
pH (1% solution):	NA
VAPOR PRESSURE (mbar):	ND
VAPOR DENSITY (air = 1):	ND
BOILING POINT:	>500 degrees F
FREEZING/MELTING POINT:	ND
SOLUBILITY IN WATER:	insoluble
SPECIFIC GRAVITY (water - 1):	1.08
EVAPORATION RATE (butylacetate = 1):	No data

SECTION XI - FEDERAL REGULATIONS

TOXIC SUBSTANCES CONTROL ACT (TSCA):		No data
OSHA HAZARD COMMUNICATION STANDARD (29CFR1910.1200):		Not required
CERCLA/RCRA REPORTING REQUIREMENTS:	SARA Section 302:	Not listed
	SARA Section 311:	Not listed
	SARA Section 312:	Not required
	SARA Section 313:	Not required
	CERCLA:	Not required
	RCRA:	Not listed

SARA SECTION 302 EHS RQ: Reportable Quantity of Extremely Hazardous Substance listed at 40CFR355.
SARA SECTION 302 EHS TPQ: Threshold Planning Quantity of Extremely Hazardous Substance. An asterisk (*) following Threshold Planning Quantity signifies that if the material is a solid and has a particle size equal to or larger than 100 micrometers, the Threshold Planning Quantity = 10,000 lbs.
SARA SECTION 313 Chemical: Toxic substances subject to annual release reporting requirement listed at 40CFR372.65.
CERCLE SECTION 103: Comprehensive Environmental Response, Compensation and Liability Act (superfund). Release to air, land or water of these hazardous substances which exceed the Reportable Quantity (RQ) must be reported to the National Response Center, (800-424-8802); Listed at 40CFR302.4.
RCRA: Resource Conservation and Reclamation Act. Commercial chemical product wastes designated as acute hazards and toxic under 40CFR261.33.

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