TRI-CHEM CORPORATION

MATERIAL SAFETY DATA SHEET

MFG.CODE # 117

SECTION I

MANUFACTURER'S NAME TRI-CHEM CORPORATION	EMERGENCY TELEPHONE NO. (800) 456-6255
ADDRESS (Street, City, State and Zip Code) P.O. BOX 71550 MADISON HEIGHTS, MI 48071-0550	
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS KLEAR KUT
CHEMICAL FAMILY N/A	FORMULA N/A

SECTION II – HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES		%	TLV (UNITS)
Triethanolamine	(CAS# 102-71-6)	>1	N/A
Boramide	(CAS# 68954-07-4)	>1	N/A
Fatty Acid Ester	(CAS# 68139-61-7)	>1	N/A

All components of this product are listed on the E.P.A./TSCA inventory of chemical substances.

SECTION III – PHYSICAL DATA

BOILING POINT °F	212	SPECIFIC GRAVITY (H2O = 1)	1.02
VAPOR PRESSURE (mm. Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	85
VAPOR DENSITY (AIR = 1)	N/A	EVAPORATION RATE (=1) water	1
SOLUBILITY IN WATER	Complete	PH	9.9

APPEARANCE AND ODOR
Clear amber to light brown liquid with no odor.

SECTION IV – FIRE AND EXPLOSION DATA

FLASH POINT (Method Used)	FLAMMABLE LIMITS	Lel	Uel
None T.O.C.		N/A	N/A

EXTINGUISHING MEDIA
Use extinguishing media suitable for fighting surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES
Fire fighters should wear full protective clothing including self-contained respiratory equipment operated in a positive mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS
None

(Continued on reverse side)

SECTION V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	PRIMARY ROUTES OF ENTRY Inhalation Skin Contact X Other (Specify)
N/A	

EFFECTS OF OVEREXPOSURE
Eyes- irritation. Skin- prolonged contact may cause drying of skin with possible irritation and/or dermatitis. Inhalation- N/A. Ingestion- nausea, vomiting, diarrhea.

EMERGENCY AND FIRST AID PROCEDURE
Eyes- flush with copious amounts of water lifting lids and removing contact lenses to ensure complete irrigation- get medical attention. Skin- flush with water and then wash with soap and water, launder contaminated clothing before reuse- get medical attention if irritation persists. Ingestion- if conscious, give several glasses of water and induce vomiting- get medical attention.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None Known

CARCINOGEN:	NTP	IARC	OTHER
No			

SECTION VI – REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Freezing

INCOMPATIBILITY (Materials to avoid)
Strong Oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS
Oxides of Carbon and Nitrogen

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Flush to sewer with copious amounts of water or use absorbent material to soak up spill.

WASTE DISPOSAL METHOD
In accordance with all Local, State, and Federal Regulations.

SECTION VIII – SPECIAL PROTECTION INFORMATION

SPECIAL RESPIRATORY PROTECTION (Specify type)
None required

VENTILATION	LOCAL EXHAUST	SPECIAL
	Normal ventilation adequate	N/A
	MECHANICAL (General)	OTHER
	Normal ventilation adequate	

PROTECTIVE GLOVES	EYE PROTECTION
Impervious	Chemical Goggles

OTHER PROTECTIVE EQUIPMENT
Eyewash and safety shower

SECTION IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Avoid contact- wear protective clothing and wash thoroughly after using. Do not take internally. Avoid freezing. Keep container

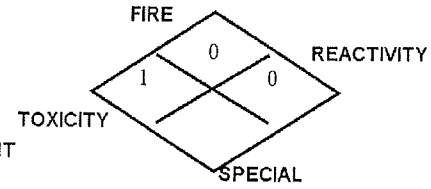
OTHER PRECAUTIONS
closed when not in use. Keep Out of Reach of Children

HMIS SYMBOL

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

HMIS		NFPA
SEVERE	4	EXTREME
SERIOUS	3	HIGH
MODERAT	2	MODERATE
SLIGHT	1	SLIGHT
MINIMAL	0	INSIGNIFICANT

NFPA SYMBOL



NAME	Barry Morrison
SIGNATURE	
TITLE	CHEMIST
PREPARATION DATE	April 22, 2002
PHONE NUMBER	1-800-456-6255 (all calls may be monitored)
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