



## MATERIAL SAFETY DATA SHEET

SECTION I		SECTION IX	
MANUFACTURER'S NAME TWIN INDUSTRIAL HOLDINGS LTD.		MDS PREPARED BY Len Varjassy	
ADDRESS (Number, Street, City, Province and Postal Code) 2825 C - 12th Ave. N., Lethbridge, Alberta T1J 4K7		DATE OF PREPARATION DECEMBER 15, 1995	
PRODUCT IDENTIFICATION Citra Care	USE/DESCRIPTION All purpose	PHONE NUMBER OF PREPARER (403) 329-4878	

### SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS	% RANGE	CAS NO. UN NO. OR NA NO.	CAS NO. UN NO. OR NA NO.	CAS NO. UN NO. OR NA NO.
D'Limonene	60-98	5989-27-5		

### SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT (DEGREES C) 321-349	SPECIFIC GRAVITY (Water = 1) 0.838-0.843	% VOLATILE (By Volume) NA
VAPOUR PRESSURE (mm Hg.) 1.2 / 20C	MELTING POINT (DEGREES C) N/D	COEFF. WATER / OIL DIST. NA
VAPOUR DENSITY (AIR = 1) 4.7	EVAPORATING RATE (butyl Acetate = 1) 0.11	pH (Of Aqueous Product)
SOLUBILITY IN WATER Emulsifies in water.	PHYSICAL STATE GAS <input type="checkbox"/> LIQUID <input checked="" type="checkbox"/> SOLID <input type="checkbox"/>	
APPEARANCE AND ODOUR Orange liquid with citrus odor	ODOUR THRESHOLD Not det.	

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY (If Yes, Under What Conditions) YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>			
FLASH POINT (Method Used) 66 dg.C	FLAMMABLE LIMITS 150 dgC	LEL 0.7%	UEL 6.1%
EXTINGUISHING MEDIA Use water spray, dry chemical, CO2, or alcohol foam.			
SPECIAL FIRE FIGHTING PROCEDURES Should use self-contained breathing apparatus & full protective clothing.			
EXPLOSION DATA (Sensitivity To Impact) NA	AUTO IGNITION TEMP. (Degrees C) NA	TDG FLAMMABILITY CLASS. 3	
HAZARDOUS COMBUSTION PRODUCTS CO, CO2	SENSIVITY TO STATIC DISCHARGE NA	RATE OF BURNING NA	EXPLOSIVE POWER NA

## SECTION V - REACTIVITY DATA

STABILITY	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	IF NO, UNDER WHICH CONDITIONS
REACTIVITY, AND UNDER WHAT CONDITIONS			
Reacts with strong oxidizers and mineral acids.			
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS			
None under normal conditions.			
COMPATIBILITY WITH OTHER SUBSTANCES		IF NO, WHICH SUBSTANCES	
YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		Strong oxidizers and mineral acids.	

## SECTION VI - TOXOLOGICAL PROPERTIES

LD50 OF PRODUCT (Species and Route) Estimated at 4000 mg/kg	LC50 OF PRODUCT (Species) Not det.		
EXPOSURE LIMIT OF PRODUCT Not det.	CARCINOGENICITY No arcinogenic components.		
IRRITANCY Low	SENSITIZING CAPABILITY Low	REPRODUCTIVE EFFECTS None known	SYNERGISTIC MATERIALS None known
EFFECTS OF EXPOSURE	ACUTE		
	ON SKIN Will defat skin, may cause irritation.		
	ABSORBED THROUGH SKIN no known effects.		
	IN EYES Will irritate eyes, may be painful.		
	IF INHALED May cause nausea, or dizziness.		
EFFECTS OF CHRONIC EXPOSURE	IF SWALLOWED Several hundred ml could cause nausea, vommiting, or diarrhea.		
	ON SKIN Some persons may be sensitized after prolonged exposure.		
	ABSORBED THROUGH SKIN No known effects.		
	IN EYES No known effects.		
	IF INHALED Prolonged inhalation may produce respiratory irritation, nausea.		
IF SWALLOWED No known effects.			

## SECTION VII - PREVENTIVE MEASURES

GLOVES (Specify) Butyl rubber or PVA	RESPIRATORY (Specify) Not normally	EYE (Specify) Chemical goggles.
FOOTWEAR (Specify) Normal	CLOTHING (Specify) Long sleeved shirt.	OTHER (Specify) Eyewash station accessible
VENTILATION / ENGINEERING CONTROLS Keep vapour level below 5000 ppm.		
HANDLING PROCEDURES AND EQUIPMENT Do not freeze. Keep tightly closed and away from sources of ignition.		
STORAGE REQUIREMENTS Keep away from heat, sparks, and flames. Store in cool, dry, area.		
LEAK AND SPILL PROCEDURES Consult federal, state and local regulatory agencies.		
WASTE DISPOSAL Follow local, provincial and federal regulations.		
SPECIAL SHIPPING INFORMATION Do not freeze.		

## SECTION VIII - FIRST AID MEASURES

EYES Flush with water for appx 15 minutes.	SKIN Wash with soap and water.
IF INHALED Remove to fresh air. Get medical attention immediately.	IF SWALLOWED Do not induce vommiting. Give water, seek medical attention.
ADDITIONAL INFORMATION None.	
SOURCES USED Clinical toxicology of commercial products - Gosselin-Smith, Hodge.	