



## MATERIAL SAFETY DATA SHEET

MANUFACTURER: ChemFast LLC.  
88 Scott Drive  
P.O. Box 70  
Westbrook, Maine 04092-0070

Emergency Telephone: CHEMTREC  
(800)424-9300

Information Telephone: (800)287-2225

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===== SECTION I-PRODUCT IDENTIFICATION =====

PRODUCT CLASS: Degreaser-Cleaner

PRODUCT NAME: CITRA-THANE

===== SECTION II-HAZARDOUS INGREDIENTS =====

INGREDIENT	CAS NUMBER	PERCENT WEIGHT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE mm Hg
			TLV	PEL	
Limonene oil (mixture)	see below		none	none	1-2 @ 20o C
Limonene/citrus	138-86-3				recommend 100ppm
D-Limonene/orange oil	8008-57-9				
D-Limonene/dipentene	5989-27-5				

===== SECTION III-PHYSICAL DATA =====

BOILING RANGE: 310-349o F                      % VOLATILE VOLUME: 100  
EVAPORATION RATE: slower than ether.          WEIGHT/GALLON: 7.0 pounds  
VAPOR DENSITY: heavier than air.

===== SECTION IV-FIRE AND EXPLOSION HAZARD DATA =====

FLAMMABILITY CLASSIFICATION: OSHA COMBUSTIBLE LIQUID CLASS II  
DOT COMBUSTIBLE LIQUID  
FLASH POINT: 115o F                      LOWER EXPLOSIVE LIMIT: 0.7%

EXTINGUISHING MEDIA: Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical or foam) designed to extinguish NFPA Class B liquid fires.

SPECIAL FIRE FIGHTING PROCEDURES: Water spray may be ineffective. Water may be used to prevent pressure build-up and possible auto ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable. Full protective equipment, including self-contained breathing apparatus should be used.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Closed containers may explode when exposed to extreme heat. During emergency operations over-exposure to decomposition products may be a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

## ===== SECTION V-HEALTH HAZARD DATA =====

## EFFECTS OF OVEREXPOSURE:

INHALATION: Anesthetic. Irritation of the respiratory tract or acute nervous system depression characterized by dizziness, headache, staggering gait, confusion, unconsciousness or coma.

SKIN CONTACT: Prolonged or repeated contact with skin will dry and de-fat skin, leading to irritation and dermatitis.

EYE CONTACT: Direct contact with product will result in eye irritation.

INGESTION: May be harmful if swallowed.

PRIMARY ROUTES OF ENTRY: Dermal and inhalation.

TOXICITY INFORMATION: Surfactants:

Severe eye irritants, moderate skin irritants.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Restore breathing if necessary. Get medical attention.

EYE AND SKIN CONTACT: Promptly and thoroughly wash eyes with water for 15 minutes and get medical attention; remove contaminated clothing and wash with soap and water. Wash contaminated clothing before reuse.

INGESTION: If victim is conscious, give two glasses of water to drink.

Do not induce vomiting. Get medical attention. Do not give anything by mouth to an unconscious person.

## ===== SECTION VI-REACTIVITY DATA =====

STABILITY: (Conditions to avoid) Stable HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Fumes and smoke. At decomposition emits carbon monoxide and carbon dioxide.

INCOMPATIBILITY (Materials to avoid): Strong oxidizers, acidic agents including clays.

## ===== SECTION VII-SPILL OR LEAK PROCEDURES =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all ignition sources. Keep unnecessary people away. Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid to containers for recovery or disposal. Minimize breathing vapor. Ventilate confined spaces.

Keep spill out of sewers and watercourses. Advise authorities if product has entered sewers, watercourses or extensive land areas. Floors may be slippery, care should be taken to avoid falls.

WASTE DISPOSAL METHOD: Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved disposal site or facility. Spilled product is a hazardous waste.

## ===== SECTION VIII-SAFE HANDLING AND USE INFORMATION =====

RESPIRATORY PROTECTION: In restricted ventilation areas, use Bureau of Mines approved chemical-mechanical filters designed to remove vapor. In confined areas, use Bureau of Mines approved airline type respirators or hoods.

VENTILATION: Provide general dilution or local exhaust ventilation in volume and pattern to keep occupational exposure limits and Lel below required limits.

PROTECTIVE GLOVES: Impervious, solvent resistant gloves should be worn.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

HYGIENIC PRACTICES: Wash before eating or smoking. Smoke in designated areas only. Remove contaminated clothing and wash before reuse.

## ===== SECTION IX-SPECIAL PRECAUTIONS: =====

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not store above 120o F. Keep containers closed. Avoid eye and skin contact. Avoid inhalation of vapors. OTHER PRECAUTIONS: Do not take internally. WARNING! Vapor harmful. Keep away from open flame. Close container after each use. Hazardous product residue may remain after the product has been removed from its container. Do not reuse "empty" container without commercial cleaning or reconditioning.

NOTICE: Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

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