

# MATERIAL SAFETY DATA SHEET

OSHA - Meets 29 CFR 1910.1200 Standards

## HMIS HAZARD RATINGS



HEALTH	1	* = Chronic Health Hazard	2 = MODERATE
FLAMMABILITY	0	0 = INSIGNIFICANT	3 = HIGH
PHYSICAL HAZARD	0	1 = SLIGHT	4 = EXTREME

## TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:	Not Regulated		
HAZARD CLASS / PKG GRP:	Not regulated	REF:	Not Applicable
IDENTIFICATION NUMBER:	None	LABEL:	None Required

## SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST)

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**LIMONENE**

MANUFACTURER'S NAME EnviroSpec	EMERGENCY TELEPHONE NUMBER Chemtrec (800) 424-9300 Outside USA (703) 527-3887
ADDRESS (NUMBER, STREET, P.O. BOX) 751 MLK Highway	TELEPHONE NUMBER FOR INFORMATION (912) 487-1778
(CITY, STATE AND ZIP CODE) Homerville, GA 31634	DATE PREPARED: April 11, 2005 SUPERSEDES: New

## SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	CAS #	% (OPTIONAL)	OSHA PEL		ACGIH TWA		SARA TITLE III	RQ LBS
			PPM	MG/M3	PPM	MG/M3		
Sodium phosphate, tribasic (STPP) (a)	7758-29-4	60 - 90	not established					5000
NTA Trisodium salt, monohydrate (b,c,d)	18662-53-8	7 - 13	not established					
Ethylene glycol monobutyl ether (e,f)	111-76-2	3 - 7	50	240	20		Yes	

- (a) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture = 7,500 lbs) or greater amounts, according to 40 CFR 302.
- (b) NTA Trisodium salt, monohydrate is not listed on the Canadian DSL or NDSL because it is a hydrate. The CAS number for the anhydrous form is on the list. All other components of this product identified by CAS number are listed on the DSL or NDSL.
- (c) Indicates substance appears on National Toxicology Program (NTP) list of carcinogens, International Agency for Research on Cancer (IARC) list of carcinogens or is regulated by the Occupational Safety and Health Administration (OSHA) as a possible carcinogen.
- (d) California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986, chemicals known to the state to cause cancer or reproductive toxicity. A person in the course of doing business must warn others who may consume, come into contact with, or otherwise be exposed to this chemical.
- (e) A "Yes" in the SARA TITLE III column in Section 2 indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.
- (f) Indicates an employee's skin exposure shall be prevented or reduced to the extent necessary in the circumstances through the use of gloves, coveralls, goggles, or other appropriate equipment.

## SECTION 3 - HEALTH HAZARD DATA

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE	EMERGENCY AND FIRST AID PROCEDURES
INHALATION: Breathing dusts may cause irritation of respiratory tract.	Remove affected person to fresh air; wash mouth and nasal passages with water repeatedly; if breathing difficulties persist seek medical attention.
SKIN: Prolonged contact may cause irritation.	Wash contacted area with soap and water; DO NOT attempt to neutralize with chemical agents; if irritation persists, seek medical attention.
EYES: Contact with eyes will cause irritation.	Check for and remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.
INGESTION: May cause gastric distress, vomiting and diarrhea.	Drink large quantities of water or milk; DO NOT induce vomiting; never give anything by mouth to an unconscious person; seek medical attention immediately.

CARCINOGENICITY NTP? Yes IARC MONOGRAPHS? Yes OSHA REGULATED? Yes  
 NTA Trisodium salt, monohydrate appears on National Toxicology Program (NTP) list of carcinogens, International Agency for Research on Cancer (IARC) list of carcinogens or is regulated by the Occupational Safety and Health Administration (OSHA) as a possible carcinogen.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin, eye, or respiratory disorders may become aggravated through prolonged exposure.

MATERIAL SAFETY DATA SHEET		
IDENTITY (AS USED ON LABEL AND LIST) LIMONENE		Page 2 of 2 Date: April 11, 2005
<b>SECTION 4 - FIRE FIGHTING MEASURES</b>		
FLASH POINT (METHOD USED) Non-flammable	NFPA RATING None	FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable
EXTINGUISHING MEDIA Carbon dioxide, water, water fog, dry chemical, chemical foam.		
SPECIAL FIRE FIGHTING PROCEDURES Floor will become slippery if material is released and mixed with water. Material is alkaline and will irritate the eyes if product is allowed to directly contact the eyes.		
UNUSUAL FIRE AND EXPLOSION HAZARDS None		
<b>SECTION 5 - ACCIDENTAL RELEASE MEASURES</b>		
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Material is alkaline and will irritate the eyes if product is allowed to directly contact the eyes. Wash small spills to sanitary sewer. Large spills - confine spill, shovel product into approved container for disposal. For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 for detailed instructions; refer to SARA Title III, Section 313, 40 CFR 372 concerning reporting requirements.		
<b>SECTION 6 - HANDLING AND STORAGE</b>		
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Store in cool, dry area. Keep this and other chemicals out of reach of children.		
<b>SECTION 7 - EXPOSURE CONTROLS / PERSONAL PROTECTION</b>		
RESPIRATORY PROTECTION (SPECIFY TYPE): None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.		
VENTILATION LOCAL EXHAUST: Required MECHANICAL (GENERAL): Yes	SPECIAL: To maintain minimum TWA and STEL levels. OTHER: Engineering and work controls as required.	
PROTECTIVE GLOVES: Neoprene, butyl or nitrile rubber gloves with cuffs.	EYE PROTECTION: Chemical safety goggles.	
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls, apron, or other equipment should be worn to prevent skin contact, safety eyewash station near work / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.		
<b>SECTION 8 - PHYSICAL / CHEMICAL PROPERTIES</b>		
BOILING POINT Not applicable	SPECIFIC GRAVITY (WATER = 1) 2.5 - 2.8	
VAPOR PRESSURE (MM Hg) Not applicable	pH 11.5 - 12.5 (2% aqueous solution)	
VAPOR DENSITY (AIR = 1) Not applicable	EVAPORATION RATE (WATER = 1) Not applicable	
SOLUBILITY IN WATER Complete	% VOLATILE (BY WEIGHT) < 7%	
APPEARANCE AND ODOR Yellow free flowing powder, characteristic odor		
<b>SECTION 9 - STABILITY AND REACTIVITY</b>		
STABILITY UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: Avoid generating airborne dust.	
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids, strong alkalis.		
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.		
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: XXX	CONDITIONS TO AVOID: None	
<b>SECTION 10 - DISPOSAL CONSIDERATIONS</b>		
WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for alkaline materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.		
The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.		