

THOROSHEEN

Version 1.3

08/14/03

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company : ChemRex®
 889 Valley Park Drive
 SHAKOPEE, MN 55379 ,

Phone : 952-496-6000

Emergency contact : 1-800-424-9300

Product name : THOROSHEEN
 MSDS : 10653

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	ethylene glycol	107-21-1	5.0 %
02	Silica, precipitated	112926-00-8	5.0 %
03	mica	12001-26-2	5.0 %
04	zinc oxide	1314-13-2	5.0 %
05	titanium dioxide	13463-67-7	15.0 %
06	Aluminum hydroxide	21645-51-2	5.0 %
07	Calcium carbonate	471-34-1	30.0 %
08	propylene glycol	57-55-6	5.0 %

EXPOSURE LIMITS

ITEM	ACGIH		OSHA		COMPANY	SKIN
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	
01	N.E.	127 mg/m3*	N.E.	125 mg/m3	N.E.	NO
02	10 mg/m3	N.E.	6 mg/m3/8H	N.E.	N.E.	NO
03	3 mg/m3	N.E.	3 mg/m3	N.E.	N.E.	NO
04	10 mg/m3	N.E.	5 mg/m3	N.E.	N.E.	NO
05	10 mg/m3	N.E.	15 mg/m3	N.E.	N.E.	NO
06	2 mg/m3	N.E.	N.E.	N.E.	N.E.	NO
07	10 mg/m3	N.E.	15 mg/m3	N.E.	N.E.	NO
08	N.E.	N.E.	N.E.	N.E.	N.E.	NO

(See Section 16 for abbreviation legend), * - Ceiling Value

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SECTION 3 - HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Irritating, but will not permanently injure eye tissue.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause skin irritation.

EFFECTS OF OVEREXPOSURE - INHALATION: May cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Moderately toxic.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Chronic overexposure may cause kidney damage. No known components of this product are listed as known or suspected carcinogens per NIOSH, NTP, IARC, or OSHA.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION INGESTION EYE CONTACT

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: Flush eye with water for 15 minutes. Get medical attention.

FIRST AID - SKIN CONTACT: Remove contaminated clothing. Wash skin with soap and water. Get medical attention.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If swallowed, DO NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into lungs.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: >200 F

LOWER EXPLOSIVE LIMIT: 3.2 %

UPPER EXPLOSIVE LIMIT: 15.3 %

AUTOIGNITION TEMPERATURE: N.D.

EXTINGUISHING MEDIA: ALCOHOL FOAM CO2 DRY CHEMICAL WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: No Information

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SECTION 5 - FIRE FIGHTING MEASURES

SPECIAL FIREFIGHTING PROCEDURES: Containers exposed to fire should be kept cool with water spray. Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Repeat sorbent/sweep cycle until the spill has dried up. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Use only in a well ventilated area. Keep out of reach of children. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

STORAGE: Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved respiratory protection when the product is mixed or applied in a poorly ventilated area or if workplace levels of ingredients exceed the TLV. Follow applicable federal, state, and local regulations.

OTHER PROTECTIVE EQUIPMENT: Where contact is likely, wear chemical resistant gloves, chemical safety goggles with a face shield, and clean protective clothing to cover arms and legs to keep exposure to a minimum.

HYGIENIC PRACTICES: Do not take internally. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE : 379 - 401 F VAPOR DENSITY : Is heavier than air
 ODOR : Slightly sweet ODOR THRESHOLD : N.D.
 APPEARANCE : Viscous liquid EVAPORATION RATE: Is slower than Butyl
 SOLUBILITY IN H2O : Soluble Acetate
 FREEZE POINT : N.D. SPECIFIC GRAVITY: 1.4000
 VAPOR PRESSURE : N.D. pH @ 100.0 % : 9.5 - 10.0
 PHYSICAL STATE : Liquid VISCOSITY : N.D.
 COEFFICIENT OF WATER/OIL DISTRIBUTION: N.D.

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Long term exposure to elevated temperatures.

INCOMPATIBILITY: Strong bases or oxidants. Strong Lewis or mineral acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Acrid fumes. Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

PRODUCT DERMAL LD50: No Information PRODUCT ORAL LD50: No Information
 PRODUCT LC50: No Information

COMPONENT TOXICOLOGICAL INFORMATION:

---- CHEMICAL NAME ----	-- DERMAL LD50 --	--- ORAL LD50 ---	---- LC50 ----
ethylene glycol	9530 uL/kg	4700 mg/kg	10876 mg/kg
Silica, precipitated	No Information	No Information	No Information
mica	No Information	No Information	No Information
zinc oxide	No Information	>8437 mg/kg	No Information
titanium dioxide	No Information	> 7500 mg/kg	No Information
Aluminum hydroxide	No Information	770 mg/kg	No Information
Calcium carbonate	No Information	6450 mg/kg	No Information
propylene glycol	18500 mg/kg	20 g/kg	No Information

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information.

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SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Review all local, state, and federal regulations concerning health and pollution for appropriate disposal procedures.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated

DOT TECHNICAL NAME: N.A.

DOT HAZARD CLASS: N.A.

HAZARD SUBCLASS: N.A.

DOT UN/NA NUMBER: N.A. PACKING GROUP: N.A. RESP. GUIDE PAGE:

DOT PLACARD AT: N.A.

DOT CLASS NUMBER: N.A.

UN PROPER SHIPPING NAME: Not Regulated

UN HAZARD CLASS: N.A.

UN CLASS NUMBER: AIR N.A. MARINE N.A.

HAZARD SUBCLASS: AIR N.A. MARINE N.A.

UN UN/NA NUMBER: N.A. UN PACKING GROUP: AIR N.A. MARINE N.A.

UN PLACARD AT: N.A.

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

CHRONIC HEALTH HAZARD

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SECTION 15 - REGULATORY INFORMATION

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

----- CHEMICAL NAME -----	CAS NUMBER	WT/WT % IS LESS THAN
ethylene glycol	107-21-1	5.0 %
zinc oxide	1314-13-2	5.0 %

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

----- CHEMICAL NAME -----	CAS NUMBER
Diethylene Glycol Monobutylether	112-34-5

U.S. STATE REGULATIONS: AS FOLLOWS -

CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

----- CHEMICAL NAME -----	CAS NUMBER
dioxane	123-91-1
Silica, quartz	14808-60-7
Formaldehyde	50-00-0
inorganic lead	7439-92-1
nickel	7440-02-0
Arsenic	7440-38-2
Cadmium	7440-43-9
ethylene oxide	75-21-8

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0
PERSONAL PROTECTION: B

PREVIOUS MSDS REVISION DATE: 07/15/99

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SECTION 16 - OTHER INFORMATION

REASON FOR REVISION: Change to 16 section format.

VOLATILE ORGANIC COMPOUNDS (VOCS): 0.67 lbs/gal, 81 grams/ltr

LEGEND: N.A. - Not Applicable, N.E. - Not Established,
N.D. - Not Determined

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<END OF MSDS>