



MATERIAL SAFETY DATA SHEET

TERRACLOR® 2LB. EMULSIFIABLE

Version: 1.1
Date of Issue: 06/01/2006
Date printed: 12/30/2006

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TERRACLOR® 2LB. EMULSIFIABLE

Chemical name: Pentachloronitrobenzene (Active)

Use of substance/preparation: Fungicide

Supplier: Chemtura USA Corporation
Chemtura Corporation (Worldwide HQ)
199 Benson Road
Middlebury, CT 06749 USA

Emergency telephone number: CHEMTREC (24 hours) 800-424-9300
Chemtura Corporation Emergency Response (24 hours) 800-292-5898
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Environmental, Health and Safety Department: 866-430-2775

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>% BY WEIGHT</u>
Pentachloronitrobenzene CAS# 82-68-8	23.8
Solvent naphtha, light aromatic CAS# 64742-95-6	< 73
1,2,4-Trimethylbenzene CAS# 95-63-6	< 23.4
Xylene CAS# 1330-20-7	< 2.2
Cumene CAS# 98-82-8	< 1.1

Ingredients not precisely identified are non-hazardous and/or proprietary.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING!

FLAMMABLE LIQUID.
CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY.
CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
- DEFATTING OF THE SKIN
MAY CAUSE SKIN SENSITIZATION.
CONTAINS A COMPONENT WHICH IS A POSSIBLE CANCER HAZARD BASED ON ANIMAL DATA.



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4. FIRST AID MEASURES

Swallowing

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Skin contact

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Eye contact

Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

5. FIRE-FIGHTING MEASURES

Flash point: 82 °F 28 °C
Autoignition temperature: 420 °C (789 °F)
Fire point

NFPA CLASSIFICATION

Health: 3	Flammability: 3	Reactivity: 0	Special provisions:
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Hazardous combustion products

Burning can produce the following combustion products:

Oxides of nitrogen.
Phosgene.
Hydrogen chloride.

Special fire fighting procedures

Use water spray to cool fire-exposed containers and structures.

Special protective equipment for firefighters

Body covering protective clothing, full "turn-out" gear.
Self-contained breathing apparatus.

Extinguishing media

Suitable: **Large fires:**
 - alcohol-type foam or universal-type foams
 Small fires:
 - CO2
 - dry chemical
 - water spray

Unsuitable: - water jets

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective equipment., Eliminate sources of ignition., Evacuate unnecessary personnel.

Environmental precautions

Prevent from entering sewer system, surface water or soil.



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Methods for cleaning up

Observe government regulations.

Small spills: Absorb on inert material such as sand, earth, vermiculite.
Collect for disposal.

Large spills Dike to contain spill.
Pump excess material into suitable container (metal drums, metal tank, or such).

7. HANDLING AND STORAGE

HANDLING

Handling precautions

Avoid contact with eyes, skin and clothing., Do not eat, drink or smoke when handling., Wash thoroughly after handling., Take precautionary measures against static discharges.

Other precautions

NOTE TO END-USERS: The employee protection recommendations on this MSDS may differ from those on the product label. For normal use of this product, always refer to the personal protective equipment requirements on the product label.

STORAGE

Storage requirements

Keep away from heat, sparks and flame., Store in a cool, dry and well-ventilated area., Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

<u>Component</u>	<u>Country</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
Pentachloronitrobenzene	USA	TWA-TLV, ACGIH	0.5 mg/m3	
				Toxicity to reproduction/fertility: A4
1,2,4-Trimethylbenzene		TWA, OSHA	125 mg/m3 25 ppm	
		TWA, ACGIH	25 ppm	
Xylene		TWA, OSHA	435 mg/m3 100 ppm	
		STEL, OSHA	655 mg/m3 150 ppm	
		TWA - ACGIH	100 ppm	
		STEL, ACGIH	150 ppm	
Cumene		TWA - ACGIH	50 ppm	

No other exposure limits have been established

PERSONAL PROTECTION

Respiratory protection

May be needed if product is used in a confined or poorly ventilated area.

Hand protection / protective gloves

Chemical resistant protective gloves



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Eye protection

Safety glasses with side shields.

Skin protection

Chemical protective clothing.

Other protective equipment

Eye bath, Safety shower

ENGINEERING CONTROLS

Ventilation

General (mechanical) room ventilation is expected to be satisfactory for normal handling., Special, local ventilation is needed at points where vapors can be expected to escape to the workplace air.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state	Liquid
Color	Amber
Odor	Solvent
Odor threshold	Not available

OTHER PROPERTIES

Boiling point	149 °C
Melting point	6.7 °C 300 °F
pH	Not available
Specific gravity (H2O=1)	1.02
Solubility in water	Insoluble
Evaporation rate (Butyl Acetate=1)	0.13
Partitioning coefficient	Not available
Flash point	82 °F 28 °C Method: Tag closed cup ASTM D 56
Autoignition temperature	420 °C (789 °F) Fire point

10. STABILITY AND REACTIVITY

Stability: This product is stable under normal storage and handling conditions.

Stability - Conditions to avoid:

Excessive temperatures.
Ignition sources.

Incompatible materials:

Strong oxidizing agents.



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Hazardous combustion products:

Burning can produce the following combustion products:
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Phosgene.
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11. TOXICOLOGICAL INFORMATION

SWALLOWING

Test results
Acute toxicity: LD50 Rat
Result: 6.4 g/kg

SKIN ABSORPTION

Test results
Acute toxicity: LD50 - Rabbit
Result: > 5 g/kg

INHALATION

Test results
Acute toxicity: LD50 - Rat
Result: 6.7 mg/l

SKIN CONTACT

Test results
Skin irritation: Species: Rabbit
Result: Severe irritation

EYE CONTACT

Test results
Eye irritation: Species: Rabbit
Result: Severe irritation

SENSITIZATION

Test results: Result: sensitizing
Remark: Test results are based on a major component.

12. ECOLOGICAL INFORMATION

Table with 2 columns: Component ecotoxicology (Pentachloronitrobenzene) and Acute toxicity results for fish (Bluegill, Rainbow trout) and aquatic invertebrates (Water flea).



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13. DISPOSAL CONSIDERATIONS

General: Dispose of in accordance with appropriate Federal, State, and local regulations., Avoid discharge to sewers and natural waters.

Non-cleaned packages

Empty drums should be decontaminated and either passed to an approved drum reconditioner or destroyed., Containers that cannot be cleaned must be treated as waste.

14. TRANSPORT INFORMATION

DOT Classification

Class: 3
 UN ID #: UN1307
 Packing group: III
 marine pollutant: MARINE POLLUTANT

IMDG Classification

Class: 3
 UN ID #: UN 1307
 Packing group: III
 Marpol: MARINE POLLUTANT

ICAO Classification

Class: 3
 UN ID #: UN 1307
 Packing group: III

15. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RO's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	RQ	CAS#	Max weight %
Pentachloronitrobenzene	100 lbs for PCNB	82-68-8	23.80
Cumene	5000 lbs for Cumene	98-82-8	< 1.10
Xylene	100 lbs for xylene (mixed isomers)	1330-20-7	< 2.20

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
1,2,4-Trimethylbenzene	95-63-6	< 23.40
Xylene	1330-20-7	< 2.20
Cumene	98-82-8	< 1.10

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name	CAS#	New Jersey TS Number
1,2,4-Trimethylbenzene	95-63-6	
Xylene	1330-20-7	
Cumene	98-82-8	

EPA Hazard Categories (SARA 311, 312):

Immediate Health Hazard, Delayed Health Hazard, Fire Hazard



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CHEMICAL INVENTORY

United States: This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and is therefore exempt from TSCA Inventory listing requirements.

16. OTHER INFORMATION

RECOMMENDED USES AND RESTRICTIONS: NOTE TO END-USERS: This MSDS is being provided to all interested persons in accordance with federal and state right-to-know laws. Precautionary Statements, First Aid Statements and Directions for Use of this product by end-users are contained on the product label and must be followed at all times.

FURTHER INFORMATION

MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED, (Korea, China, New Zealand) CONSULT REGULATORY SPECIALIST.

HMIS RATING

Health: 3	Flammability: 3	Reactivity: 0	PPI: X
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STP	Standard temperature and pressure
W/W	0 (HMIS)
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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