Issued: Dec-17-2004



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer Name and Abbott Laboratories
North Chicago, II, 600

Address: North Chicago, IL 60064

Customer Service Telephone: Global Environmental Materials Management Operations: 1 - 847 - 938 - 3810

Emergency Telephone: 1 - 800 - 424 - 9300 CHEMTREC (USA)

1 - 703 - 527 - 3887 CHEMTREC (INTERNATIONAL)

Product Name: Cyclosporine Toluene Distillate

Synonyms: Cyclosprine Toluene Distillate; Cyclosporine Toluene Stream; Toluene - Low-

Grade; Low-Grade Toluene

Product Use: Spent solvent for sale / recycling

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percent	OSHA PEL	ACGIH TLV	AIHA WEEL	Abbott EEL	Skin Notation
Toluene	75 - 95	200 ppm TWA	50 ppm TWA	Not Applicable	Not Applicable	Skin (ACGIH)
108-88-3		300 ppm				
		Ceiling				
Ethyl Alcohol	4 - 15	1000 ppm	1000 ppm	Not Applicable	Not Applicable	None
64-17-5		TWA	TWA			
		1900 mg/m ³				
		TWA				
Methyl Alcohol	0.1 - 1	200 ppm TWA	250 ppm STEL	Not Applicable	Not Applicable	Skin (ACGIH)
67-56-1		260 mg/m ³	200 ppm TWA			
		TWA				
Acetone	1 - 10	1000 ppm	750 ppm STEL	Not Applicable	Not Applicable	None
67-64-1		TWA	500 ppm TWA			
		2400 mg/m ³				
		TWA				
Water	0 - 2	Not Listed	Not Listed	Not Applicable	Not Applicable	None
7732-18-5				- 1		

Notes: OSHA PEL: US Occupational Safety and Health Administration- Permissible Exposure Limit.

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. AIHA WEEL: American Industrial Hygiene Association - Workplace Environmental Exposure Level.

Abbott EEL: Abbott Laboratories Employee Exposure Limit.

TWA: 8-hour Time Weighted Average. STEL: 15-minute Short Term Exposure Limit.

C: Ceiling Limit.

3. HAZARDS IDENTIFICATION

Emergency Overview:

Clear, water-white liquid to cloudy, faintly yellow liquid.

Odor: Aromatic solvent odor.

Flammable liquid.

Issued: Dec-17-2004

No data are available for evaluation of this material.

Components may cause skin, eye and/or respiratory tract irritation. May cause fatigue, headache and dizziness. Potential for absorption through the skin.

Routes of Exposure:

Oral: Yes (one or more components)

Dermal: Yes (one or more components)

Inhalation: Yes

Hazard Information:

Ingestion Rating:
Skin Absorption Rating:
Inhalation Rating:
Corrosiveness Rating:
Skin Contact Rating:
Skin Sensitization Rating:
Eye Contact Rating:
Not determined.
Not determined.
Not determined.
Not determined.

Target Organs: Possible target organs include: , pancreas , Kidney , Liver , Respiratory System ,

Nervous System, Hematopoietic System, Cardiovascular System, Female

Reproductive System, Eyes.

Carcinogenicity Rating:

Ingredients	Percent	OSHA:	NTP:	IARC:	ACGIH:
Toluene	75 - 95	Not Listed	Not Listed	Not Listed	Not Listed
Ethyl Alcohol	4 - 15	Not Listed	Not Listed	Not Listed	Not Listed
Methyl Alcohol	0.1 - 1	Not Listed	Not Listed	Not Listed	Not Listed
Acetone	1 - 10	Not Listed	Not Listed	Not Listed	Not Listed
Water	0 - 2	Not Listed	Not Listed	Not Listed	Not Listed

NFPA Rating:

Health: Not determined. Fire: Not determined.

Reactivity: 0

Signs and Symptoms: Major ingredient - eye irritation, corneal injury, defatting of skin, headaches,

respiratory irritation, hilarity, lassitude, tearing, visual impairment, nasal discharge, drowsiness, ataxia, dizziness, metallic taste, cognitive dysfunction. Chronic exposure may result in the following: loss of appetite, altered reaction time, memory lapse, palpitation, abnormal liver function, abnormal kidney function, muscle weakness, altered hematology profile, cardiac changes.

Medical Conditions Aggravated by Exposure: Data suggest any preexisting ailments in the following organs: skin, eyes, nervous system, female reproductive system, cardiovascular system, respiratory

system, hematopoietic system, liver, kidneys. Concurrent intake of depressants

like alcohol. Concurrent use of stimulants.

4. FIRST AID MEASURES

Issued: Dec-17-2004

Eye Contact: Remove from source of exposure. Flush with copious amounts of water. If

irritation persists or signs of toxicity occur, seek medical attention. Provide

symptomatic/supportive care as necessary.

Skin Contact: Remove from source of exposure. Flush with copious amounts of water. If

irritation persists or signs of toxicity occur, seek medical attention. Provide

symptomatic/supportive care as necessary.

Inhalation: Remove from source of exposure. If signs of toxicity occur, seek medical

attention. Provide symptomatic/supportive care as necessary.

Ingestion: Remove from source of exposure. If signs of toxicity occur, seek medical

attention. Provide symptomatic/supportive care as necessary.

Notes To Physician: Aspiration may cause severe lung damage. Evacuate stomach in a way which

avoids aspiration.

5. FIRE FIGHTING MEASURES

FLAMMABILITY:

Autoignition Temp. (°C): Not determined.

FIRE-FIGHTING INFORMATION:

Suitable Extinguishing Media: Foam. Carbon dioxide Dry chemical Water fog

Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained

breathing equipment.

Special Exposure Hazards: Avoid inhalation of combustion products.

U.S. Emergency Response

Guidebook No.:

128

6. ACCIDENTAL RELEASE MEASURES

Methods of Cleaning and

Collecting:

Restrict spill area to those equipped with personal protection specified in Section 8. Absorb with suitable material. Place into an appropriate container for disposal.

Personal Precautions: Restrict spill area to those equipped with personal protection specified in Section

8.

Environmental Precautions: Keep away from drains and surface waters.

Incompatibilities: Oxidizing materials.

7. HANDLING AND STORAGE

Handling: Bond and ground containers during transfer operations.

Storage: Keep away from heat and open flame.

Special Precautions: Not applicable.

Issued: Dec-17-2004

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation as necessary to maintain exposures to within applicable

limits.

Respiratory Protection: Use approved NIOSH respiratory protection if TLV exceeded or overexposure is

likely.

Eyes: Wear eye protection appropriate to handling activities.

Gloves: Impervious gloves.

Other PPE Data: Not determined.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, water-white liquid to cloudy, faintly yellow liquid.

Odor: Odor: Aromatic solvent odor.

Boiling Pt. @ 760 mm Hg (°C): Not determined.

Melting/Freezing Point: Not determined.

Vapor Pressure (mm Hg) Not determined.

Bulk Density at 20°C: Not determined.

Solubility: Not determined.

Specific Gravity: Not determined.

Density, g / mL: 0.83 - 0.86

pH: 6 - 7

Viscosity (centipoise): Not determined.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at normal temperature and pressures.

Self-Heating Tendency: Not determined.

Materials to Avoid: Oxidizers.

Hazardous Decomposition

Products:

May emit under fire conditions: CO, CO2.

Hazardous Polymerization: Not known to occur.

Conditions to Avoid: Avoid contact with heat, sparks, open flame, and static discharge.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral: LD50 not determined for product. Data for component (s) given below.

Ingredients	Percent	Acute Test	Value	Units	Species
Toluene	75 - 95	LD50 =	636-7400	mg/kg	Rats
Ethyl Alcohol	4 - 15	LD50 =	5560-13,700	mg/kg	Guinea Pigs Rats Mice
					Rabbits
Methyl Alcohol	0.1 - 1	LD50 =	5000-7300	mg/kg	Rats Mice
Acetone	1 - 10	LD50 =	1738-10,700	mg/kg	Mice Rats Rabbits

Acute Toxicity - Dermal: LD50 not determined for product. Data for component (s) given below.

Issued: Dec-17-2004

Ingredients	Percent	Acute Test	Value	Units	Species
Toluene	75 - 95	LD50 >	12,000 - 14,000	mg/kg	Rats Rabbits
Ethyl Alcohol	4 - 15	LD50 =	20000	mg/kg	Rabbits
Methyl Alcohol	0.1 - 1	LD50 =	15,800	mg/kg	Rabbits
Acetone	1 - 10	LD50 =	20,000	mg/kg	Rabbits

Acute Toxicity - Inhalation: LC50 not determined for product. Data for component (s) given below.

Ingredients	Percent	Test	Value	Units	Species
Toluene	75 - 95	LC 50 =	5300-26,700	ppm (variable exposure	Rats Mice Rabbits
				times)	
Ethyl Alcohol	4 - 15	LC 50 =	20000	ppm	Rats
Methyl Alcohol	0.1 - 1	LC 50 =	64,000	ppm	Rats
Acetone	1 - 10	LC 50 <	16,000	ppm, 4 hour	Rats

Corrosivity: Not determined.

Dermal Irritation: Not determined for product. Major ingredient: Produced mild to moderate skin

irritation in animals. Minor ingredients are skin irritants.

Eye Irritation: Not determined for product. Major ingredient: Produced mild to severe eye

irritation in animal testing. Minor ingredients are eye irritants.

Sensitization: Not determined.

Target Organ Effects: Not determined for this mixture. Volatile organic solvents typically target the

central nervous system and skin.

Major Ingredient: In animal testing, target organs include: skin, eyes, respiratory system, cardiovascular system, nervous system, female reproductive system, hematopoietic system, liver, kidneys. Minor Ingredient: gastrointestinal tract,

pancreas, eyes.

Ingredients	Percent	Target Organs:	Species	Dosage	Units	Route	Duration
Acetone	1 - 10	Kidney.	Rats	500	mg/kg	Oral	90 days

Reproductive Effects: Not determined.

Ethyl Alcohol: Use of alcohol during pregnancy can lead to retarded growth, development delays and abnormalities (fetal alcohol syndrome).

Carcinogenicity: Not determined.

Mutagenicity: Data for component (s) given below.

Ingredients	Percent	Ames Test:	Mouse	Micronucleus	Chromosomal
			Lymphoma Assay	Assay	Abbr. Assay
Toluene	75 - 95	Negative	No Data.	Negative	Negative
Acetone	1 - 10	Negative	No Data.	No Data.	No Data.

Notes:

- 1. ALD: Approximate lethal dosage
- 2. LC50: Concentration in air that produces 50% mortality
- 3. LD50: Oral or dermal dosage that produces 50% mortality

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Data for component (s) given below.

Issued: Dec-17-2004

Ingredients	Percent	LC 50 (mg/l)	Species	Duration
Acetone	1 - 10	5540	Rainbow Trout	96 Hours

Biodegradation: Not determined.

General Notes: Do not allow undiluted material or large quantities to reach groundwater, bodies

of water or sewer system.

Notes:

1. EC50: Concentration in water that produces 50% mortality in Daphnia sp.

2. LC50: Concentration in water that produces 50% mortality in fish.

3. EbC50/ErC50: Concentration in water that produces 50% inhibition of growth and in algae.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: This material is regulated in the U.S. as a hazardous waste under 40 CFR, part

261 due to its ignitability characteristic. All waste must be packaged, labeled, transported and disposed of in conformance with applicable local, state, and federal laws and regulations and in accordance with good engineering practices.

14. TRANSPORT INFORMATION

DOT:

Status: Regulated.

DOT Basic Shipping

Description:

Flammable Liquid, N.O.S. (Toluene, Ethanol), 3, UN1993, PGII

ICAO/IATA:

Status: Regulated.

Hazard Class: 3

UN ID: UN1993

Packing Group: II

IMDG:

Status: Regulated.

Dangerous Goods Flamamble Liquid, N.O.S. (Toluene, Ethanol)

Description:

Hazard Class: 3

UN ID: UN1993

Packing Group: II

TDG (Canada):

Status: Not determined.

15. REGULATORY INFORMATION

SARA 313 Information

Issued: Dec-17-2004

Ingredients	Percent	SARA 313 Chemical:	CERCLA RQ/SARA	SARA EHS TPQ (lbs):
			EHS RQ (lbs):	
Toluene	75 - 95	1.0 % de minimis	1000 lb	Not applicable
		concentration	454 kg	
Ethyl Alcohol	4 - 15	No	Not Applicable	Not applicable
Methyl Alcohol	0.1 - 1	1.0 % de minimis	2270 kg	Not applicable
		concentration	5000 lb	
Acetone	1 - 10	No	2270 kg	Not applicable
			5000 lb	
Water	0 - 2	No	Not Applicable	Not applicable

SARA 311/312 Hazard Catagories:

Immediate Health: Yes

Delayed Health: Not determined.

Fire: Yes
Sudden Pressure: No
Reactivity: No

TSCA Inventory Status: Not determined.

CERCLA Status: Not determined.

RCRA Status: Not determined.

Proposition 65 Status: Chemicals known to the State of California to cause cancer or reproductive harm

listed below.

Ingredients	Percent	Proposition 65 Listed Materials
Ethyl Alcohol	4 - 15	Developmental toxicity (when in alcoholic beverages); initial date 10/1/87.

EC HAZARD CLASSIFICATION:

Category of Danger:Not determined.Indication of danger:Not DeterminedRisk Phrases:Not determinedICH Classification:Not determined.

CANADIAN REGULATIONS:

Canadian Inventory: Not determined.
Canadian NDSL: Not determined.
WHMIS Hazard Class: Not determined.

Notes:

1. SARA = Superfund Ammendments and the Reauthorization Act.

2. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act.

3. FIFRA = Federal Insectacide, Fungicide and Rodenticide Act.

4. TSCA = Toxic Substances Control Act.

5. EC = European Community.

6. WHMIS = Canadian Workplace Hazardous Materials Information System.

7. UN GHS = United Nations Globally Harmonized System for Hazard Identification.

16. OTHER INFORMATION

Document Authored By: Julie Nowak

Product Name: Cyclosporine Toluene Distillate Issued: Dec-17-2004

Disclaimer:

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