

## Material Safety Data Sheet

Issue Date:

9/25/2006

## Section 1: Chemical Product and Company Identification

Cat#: 24752

Part Name: TETRAHYDROFURAN

Supplier: Polysciences, Inc.

400 Valley Road

Warrington, PA 18976

Telephone #215-343-6484

## Section 2: Composition/ Information on Ingredients

Item #	Name	CAS#	% in product
1	Tetrahydrofuran	000109999	100

## OSHA (ACGIH) Exposure Limits

CAS#	IDHL	TWA		STEL		CEILING	
		ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
000109999	2,000						
	OSHA:	Not	590	--	--	--	--
	ACGIH:	200	590	250	250	--	--

## Section 3: Hazards Identification

Causes skin, eye and respiratory tract irritation.

Flammable liquid and vapor.

## Hazard Ratings:

These ratings are Polysciences' Inc. own assessments of the properties of the material using the ANSI/NFPA 704 Standard.

Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not

Health	Flammability	Reactivity
2	----- 3	----- 1

## Section 4: First Aid Measures

Flush eyes with flowing water for at least 15 minutes.

If swallowed, NO NOT INDUCE vomiting. Give 8 oz. of water or milk to drink. Call a physician or the POISON CONTROL CENTER

immediately. Never give anything by mouth to an unconscious person.

Remove contaminated clothing.

Remove to fresh air.

Separate eyelids with finger tips.

Wash skin with deluge of water for at least 15 minutes.

## Section 5: Fire Fighting Measures

Flash point, deg F.: -6.7 Method: ASTM D56

UEL: 11.8 LEL: 2.3 Autoignition temperature, deg. F.: 610 F

Flammability IB Flame Propagation

Hazardous Combustion Products:

## Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition

sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

Contain spilled liquids.

Protect personnel from exposure.

Remove ignition sources.

Ventilate the area.

## Section 7: Handling and Storage

Store at room temp

## Section 8: Exposure Controls/ Personal Protection

The use of eye protection in the form of safety glasses with side shields and the

use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves. Use chemical splash goggles and face shield. Use latex or equivalent gloves. Use process enclosures, local exhaust ventilation, or other engineering controls.

#### Section 9: Physical and Chemical Properties

Formula: C<sub>4</sub>H<sub>8</sub>O vapor pressure: 129 @ 20 c  
 Formula weight: 72.1 vapor density: 2.5  
 boiling point: 151 Specific gravity: 0.89  
 melting point: ph: 7  
 solubility: miscible appearance: colorless liquid

#### Section 10: Stability and Reactivity

Chemical stable  
 Conditions to Avoid: heat; flame  
 Incompatibility with other lithium aluminum hydride and alkaline earth hydroxides  
 Hazardous Decomposition no data  
 Hazardous will not occur

#### Section 11: Toxicological Information

Acute LD50 rat oral 4500 mg/kg, LC50 rat inhalation 4 hrs 18000 ppm  
 Subchronic data: adverse liver function, affected white cell count and sugar level, carcinogenicity in animals

#### Section 12: Ecological Information

inherent biodegradability >70 percent; readily degradable

#### Section 13: Disposal Considerations

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
000109999	U213	Tetrahydrofuran

#### Section 14: Transportation Data

Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

#### Section 15: Regulatory Information

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
000109999	no	no

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	FL	MA	MN	PA	WA
000109999					

SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)  
 This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

24752.txt

CAS#	Regulated Name	de minimis conc.	%Rep. Thres.
000109999	not listed	not listed	not listed

SARA Extremely Hazardous Substances and TPQs

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS#	Regulated Name	TPQ (pounds)	EHS-RQ(pounds)
000109999	not listed	not listed	not listed

CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ pounds
000109999	Not listed	Not listed

Section 16: Other Information

POLYSCIENCES, INC. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. POLYSCIENCES, INC. makes no representations or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, POLYSCIENCES, INC. will not be responsible for damages resulting from the use of or reliance upon this information.

END OF MSDS