

# MATERIAL SAFETY DATA SHEET

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HMIS HAZARD RATING	
HEALTH	1
FIRE	2
REACTIVITY	0
PERSONAL PROTECTION	C

DATE OF PREPARATION  
JULY 11, 2002  
BY TECHNICAL SERVICES

DATE OF REVIEW/UPDATE  
JULY 25, 2006

## SECTION 1 - PRODUCT IDENTIFICATION

ITEM NUMBER

**1284**

PRODUCT NAME

**TEC99407 TECHNICIAN'S CHOICE FOAMING ENGINE DEGREASER**

PRODUCT CLASS

Aerosol Cleaner

## SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENT CAS NUMBER	MAXIMUM % BY WT.	TLV <sup>1</sup>	PEL <sup>2</sup>	VAPOR PRESSURE
D-LIMONENE; 4-ISOPROPENYL-1-METHYLCYCLOHEXANE 5989-27-5	5	unknown	unknown	2
PETROLEUM DISTILLATES 64742-95-6	5	unknown	100ppm	0.1
2-BUTOXYETHANOL 111-76-2	5	25ppm	25ppm	0.6
PETROLEUM DISTILLATES 8008-20-6	2	unknown	400ppm	2.0
BUTANE 106-978	5	800ppm	800ppm	1640
PROPANE 7727-37-9	3	unknown	asphyxiant	6350

Listed as IARC, NTP, or OSHA Carcinogen: None

## SECTION 3 - PHYSICAL CHARACTERISTICS

BOILING POINT (INITIAL):	212 F	SPECIFIC GRAVITY:	0.92
VAPOR PRESSURE	UNK	MELTING POINT:	UNKNOWN
VAPOR DENSITY(AIR=1)	> 1	EVAPORATION RATE	UNKNOWN
SOLUBILITY IN WATER:	COMPLETE		
APPEARANCE AND ODOR:	LIQUID AEROSOL PRODUCT		

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SECTION 4 - FIRE AND EXPLOSION HAZARD DATA  
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FLASH POINT (PROPELLANT) / METHOD: -156 F / ESTIMATED

FLAMMABLE LIMITS: LEL : .7 UEL : 12.7

**EXTINGUISHING MEDIA:** Water fog, dry chemical, foam or carbon dioxide.

**SPECIAL FIRE FIGHTING PROCEDURES:** Full protective equipment including self contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build up and possible autoignition or explosion when exposed to extreme heat.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Isolate from heat, electrical equipment, sparks, and open flame. closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

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SECTION 5 - HEALTH HAZARD DATA  
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**EFFECTS OF OVEREXPOSURE:** Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

**ACUTE HEALTH HAZARDS:** Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Heart and lung disorders.

**CHRONIC HEALTH HAZARDS:** Prolonged overexposure to solvent ingredients in (Section 2) may cause adverse effects to the lung, liver, urinary, cardiovascular system. Reports have associated repeated and prolonged overexposure to solvents with permanent brain damage and nervous system damage. 2-Butoxyethanol may cause corneal damage and blood abnormalities, may be absorbed through the skin with toxic effects and may cause damage to the spleen and testes.

**EMERGENCY AND FIRST AID PROCEDURES:**

**INHALATION:** Remove exposure. Restore breathing. Keep warm and quite.

**SKIN:** Wash affected area with soap and water. Remove contaminated clothing and launder before reuse.

**EYES:** Flush with large amounts of water. Get medical attention.

**IF SWALLOWED:** Never give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Seek medical attention.

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SECTION 6 - REACTIVITY DATA  
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STABILITY: Stable  
INCOMPATIBILITY: Strong Oxidizers, acids, chlorine, acetaldehyde, ethylene oxide, isocyanates, aluminum surfaces above 120F  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, ammonia  
HAZARDOUS POLYMERIZATION: Will not occur.  
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SECTION 7 - SPILL OR LEAK PROCEDURES  
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**STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR LEAKED:** Remove all sources of ignition. Ventilate and remove with inert absorbent.  
**WASTE DISPOSAL METHOD:** Waste from this product may be hazardous as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Do not incinerate. De-pressurize container. Dispose of in accordance with federal, state and local regulations.  
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SECTION 8 - SPECIAL PROTECTION INFORMATION  
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**VENTILATION:** Use only with adequate ventilation. Avoid breathing vapor or mist. Local exhaust preferred.  
**RESPIRATORY PROTECTION:** If exposure cannot be controlled below the limits in SECTION 2 a properly fitted organic vapor/particle type NIOSH/MSHA approved respirator. Refer to OSHA 1910.94, 1910.107, 1910.108.  
**SKIN PROTECTION:** Gloves rated for protection against ingredients in SECTION 2.  
**EYE PROTECTION:** Safety glasses with side shields or chemical goggles.  
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SECTION 9 - PRECAUTIONARY INFORMATION  
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**NFPA 30B LEVEL:** 1  
**PRECAUTIONS TO BE TAKEN IN STORING AND HANDLING:** Contents are extremely flammable. Keep away from any heat or spark source. Vapors will accumulate readily and may ignite explosively. Do not smoke and turn off any source of ignition before use. Consult NFPA CODE. Contents under pressure, do not puncture incinerate or expose container to elevated temperatures that could cause the container to burst. Heat from sunlight, radiators, stoves, hot water or other sources of heat could cause the container to burst.

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SECTION 10 - US FEDERAL REGULATORY INFORMATION  
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**D.O.T. REQUIREMENTS (49CFR 172.101)**

CONSUMER COMMODITY, ORM-D

**RQ 49CFR 172.101 (REPORTABLE QUANTITY)**

COMPONENT	RQ (lb.)	OF THIS PRODUCT
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NONE

**TSCA (Toxic Substances Control Act) Status**

The intentional ingredients of this product are listed.

**CERCLA RQ - 40CFR 302.4**

COMPONENT	RQ (lb.)	OF THIS PRODUCT
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NONE

**SARA 302 COMPONENTS - 40CFR 355 Appendix A**

COMPONENT	TPQ (lb.)	RQ (lb.)
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NONE

**SECTION 311/312 HAZARD CLASS - 40CFR 370.2**

Immediate	(X)	Reactive	( )
Delayed	(X)	Sudden Release of Pressure	( )
Fire	(X)		

**SARA 313 COMPONENTS - 40CFR 372.65**

COMPONENT	CAS NUMBER	MAXIMUM PERCENT
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2-BUTOXYETHANOL	111-76-2	5
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**WORKPLACE HAZARDOUS INFORMATION SYSTEM (WHMIS)**

INGREDIENT	MAX. % BY WT.	LD50	LC50
2-BUTOXYETHANOL 111-76-2	5	1480mg/kg oral-rat	unknown

**CALIFORNIA PROPOSITION 65**

This product contains substances known by the state of California. to cause cancer and birth defects or other reproductive harm.

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The information contained herein is based on data we believe to be correct. Any use of the product which is not in conformance with this MSDS or which involves using the product in combination with any other product or any process is the responsibility of the user.

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<sup>1</sup> ACGIH

<sup>2</sup> OSHA