

TERPENE TECHNOLOGIES, INC.
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(716) 227-7803

MATERIAL SAFETY DATA SHEET

TRADE NAME (S): Tarksol™ HTF 60

TERPENE TECHNOLOGIES, INC. PRODUCT NUMBER: HTF 60

Tarksol™ HTF 60 is made under U.S. Patent No. 5112516 and other U.S. and foreign patents pending.

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DATE OF MSDS: 1992-05-04

SECTION I - IDENTIFICATION

TRADE NAME: Tarksol™ HTF 60
CHEMICAL FAMILY: Terpene Hydrocarbons, Aliphatic Diester, Aprotic Solvent Blend
FORMULA: Trade Secret (see Section II - Hazardous Ingredients)
DOT SHIPPING INFORMATION: Not regulated by U.S. Department of Transportation
CAS NUMBER: Not Applicable (mixture)

NFPA DESIGNATION*: This product has not been rated by the NFPA. Terpene Technologies, Inc. has developed the following rating in accordance with the guidelines listed in NFPA 704, "Identification System-Fire Hazards of Materials, 1985"

HAZARD-RATING:	DESIGNATION	
4 - EXTREME	FIRE 1	
3 - HIGH	HEALTH 1	1 REACTIVITY
2 - MODERATE		
1 - SLIGHT	X SPECIFIC	
0 - NONE		
X - BLANK		

*Copyright, 1985, National Fire Protection Association. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to a certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325M which should be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 system to classify chemicals does so at their own risk.

SECTION II - HAZARDOUS INGREDIENTS

MATERIAL	% BY WEIGHT	CAS NO.	OSHA PEL	ACGIH
		Trade Secret Information**		

**This product's specific chemical identity is being withheld as a trade secret and is withheld in accordance with the provisions of CFR 1910.1200

CARCINOGENICITY STATUS: NTP - No, OSHA - No

SECTION III - PHYSICAL DATA

APPEARANCE:	Clear liquid
BOILING POINT:	424°F
FREEZING POINT:	Not Available
ODOR:	Very faint pine odor
PH:	Not applicable
VISCOSITY (Cs):	11.1 cps
PERCENT VOLATILE BY VOLUME:	100%
SOLUBILITY IN WATER:	Appreciable (greater than 10%)
SPECIFIC GRAVITY (WATER = 1):	0.995 @ 25°C
VAPOR DENSITY (AIR = 1):	>1
VAPOR PRESSURE (mm HG):	Not available

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD):	(TCC) > 200°F
AUTO IGNITION TEMPERATURE:	Not applicable
FLAMMABLE LIMITS IN AIR (g/l):	Not Available
EXTINGUISHING MEDIA:	Dry chemical (sodium bicarbonate), foam or CO2
SPECIAL FIRE FIGHTING PROCEDURES:	Use blanket or smothering effect to put out the fire. Water is most effective when used as a mist or spray. (Class B fire procedures)

SECTION V - HEALTH HAZARD INFORMATION

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Dermatitis or skin conditions.

ROUTES OF EXPOSURE

INHALATION:	May cause irritation to mucous membranes
SKIN CONTACT:	May cause irritation or dermatitis
SKIN ABSORPTION:	May cause irritation or dermatitis
EYE CONTACT:	May cause stinging or burning
INGESTION:	May cause irritation to the digestive system

EFFECTS OF OVEREXPOSURE

ACUTE EXPOSURE

SWALLOWING: May cause irritation to the digestive system
SKIN CONTACT: May cause irritation or dermatitis
INHALATION: May cause irritation to mucous membranes
EYE CONTACT: May cause stinging or burning

CHRONIC OVEREXPOSURE

EYE: May cause eye damage
SKIN: May cause dermatitis

EMERGENCY AND FIRST AID PROCEDURES

EYES: If in eyes, flush with plenty of water for at least fifteen (15) minutes. Get medical attention.
SKIN: If on skin, immediately remove contaminated clothing and wash skin thoroughly with soap and water. If irritation persists, call a physician.
INHALATION: If inhaled, remove to area of fresh air. If irritation persists, call a physician.
INGESTION: If swallowed, DO NOT induce vomiting. Drink large quantities of milk or water. Never give anything by mouth or an unconscious person. Call a physician or the Poison Control Center.

SECTION VI - REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: This product is stable under normal conditions.
INCOMPATIBILITY: Strong oxidizing agents
DECOMPOSITION PRODUCTS: None known
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: Will not occur

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Cleanup personnel must wear proper protective equipment. Reclaim material into closed containers for possible normal use or disposal. Dike all spills.

WASTE DISPOSAL: Virgin material is not regulated by the Resource Conservation and Recovery Act (RCRA) (40 CFR part 260-261).

SECTION VIII - SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS: None Required

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY:	If needed, use NIOSH approved organic vapor respirator
EYES:	Chemical splash goggles and/or face shield
GLOVES:	Chemically resistant gloves
OTHER:	When handling large quantities, use of rubber apron and rubber boots is also recommended. Safety showers and eye wash facilities should be available nearby. Wash thoroughly after handling.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING:

Do not get in eyes, on skin, or on clothing. Do not take internally.

PROPER STORAGE, HANDLING AND DISPOSAL REQUIREMENTS:

Store in a cool, dry area. Keep container closed when not in use. Store away from strong oxidizing agents.
KEEP OUT OF REACH OF CHILDREN.

OTHER PRECAUTIONS:

CAUTION: Prolonged contact with skin may cause chapping. Wear rubber or plastic gloves, chemical splash goggles and rubber apron when handling this product. Use in a well ventilated area. Respiratory protection not normally required. If needed, use NIOSH approved organic vapor respirator. The availability of eye washes and safety showers in work areas is recommended.

ADDITIONAL REGULATORY CONCERNS: All ingredients are included in the Toxic Substances Control Act (TSCA) Inventory of Chemical Substances.

MSDS PREPARED BY: Terpene Technologies, Inc.
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ISSUE DATE: May 4, 1992

The information herein is given in good faith but no warranty, expressed or implied is made.