

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910.1200. Standard must be consulted for specific requirements

U.S. Department of Labor
 OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
Similar To Form OSHA 174

IDENTITY (As Used on Label and List)

CLEANUP SOLVENT 22ACUTE HEALTHFIREREACTIVITY**NFPA: 1 2 0**

0=LEAST 1=SLIGHT 2=MODERATE 3=HIGH 4=EXTREME

SECTION I

MANUFACTURER'S NAME TITAN LABORATORIES	EMERGENCY TELEPHONE NUMBER SEE BELOW OR 800-255-3924 EMERG'Y ONLY
ADDRESS 1071 WRIGHT AVE. MOUNTAIN VIEW, CA 94043	TELEPHONE NUMBER FOR INFORMATION (650) 965-9900
DATE PREPARED July 11, 2008 v1.37	

SECTION II --- HAZARDOUS INGREDIENTS/IDENTIFY INFORMATION

HAZARDOUS COMPONENTS (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	% (optional)
ALIPHATIC HYDROCARBONS CAS # 8052-41-3	100	100	>20%

SECTION III --- PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT	315°F @ 700 mmHg	SPECIFIC GRAVITY (H ₂ O = 1)	0.78
VAPOR PRESSURE (MM HG)	3 mm Hg @ 68° F	DIELECTRIC STRENGTH	28 TO 40 KV
		DIELECTRIC CONSTANT	1.98
VAPOR DENSITY (AIR = 1)	4.7	EVAPORATION RATE (N-Butyl Acetate = 1)	0.20
SOLUBILITY IN WATER	<1%	LIQUID DENSITY:	6.42 Lbs/Gal
APPEARANCE AND ODOR	CLEAR LIQUID. LOW ODOR.		

SECTION IV --- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED)	105°F	FLAMMABLE LIMITS	LEL	1.0	UEL	6.0
EXTINGUISHING MEDIA	FOAM, CARBON DIOXIDE OR DRY CHEMICALS		AUTOIGN. TEMP:	500°F		

SPECIAL FIRE FIGHTING PROCEDURES **WEAR SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE.**

UNUSUAL FIRE AND EXPLOSION HAZARDS **DO NOT WELD ON OR NEAR DRUMS EVEN IF EMPTY. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND TO A PILOT LIGHT OR OTHER FLAME AT A DISTANT LOCATION.**

SECTION V --- REACTIVITY DATA

STABILITY : STABLE	INCOMPATIBILITY Materials to Avoid)	STRONG OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION OR BYPRODUCTS	MAY FORM CARBON MONOXIDE, CARBON DIOXIDE, VARIOUS HYDROCARBONS.	
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR		

SECTION VI --- HEALTH HAZARD DATA

ROUTE(S) OF ENTRY:	INHALATION? YES	SKIN? YES	INGESTION? YES
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HEALTH HAZARDS (Acute and Chronic) **PROLONGED INHALATION OF VAPORS: NAUSEA, DROWSINESS. THE SHORT TERM INHALATION TOXICITY IS LOW. • SKIN: POSSIBLE LOCAL IRRITATION, DRYNESS, CHAPPING OR DERMATITIS. GENERALLY LOW RISK UNDER NORMAL CONDITIONS OF HANDLING AND USE • INGESTION: SWALLOWING SMALL AMOUNTS NOT LIKELY TO CAUSE HARMFUL EFFECTS BECAUSE OF LOW ORAL TOXICITY. LARGE AMOUNTS MAY CAUSE LUNG INFLAMMATION AND/OR DAMAGE. • EYES: POSSIBLE MILD EYE IRRITATION.**

CARCINOGENICITY:	NTP? NONE KNOWN	IARC MONOGRAPHS? NONE	OSHA REGULATED? NO
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SIGNS AND SYMPTOMS OF EXPOSURE See "HEALTH HAZARDS," above. 

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
POSSIBLY PRE-EXISTING SKIN OR RESPIRATORY DISORDERS

EMERGENCY AND FIRST AID PROCEDURES
INHALATION: REMOVE TO FRESH AIR • SKIN: FLUSH WITH WATER. • INGESTION: RINSE MOUTH. DO NOT INDUCE VOMITING. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION TO LUNGS. IF SYMPTOMS PERSIST, GET MEDICAL HELP. • EYES: FLOOD GENTLY WITH WATER WHILE HOLDING EYELIDS OPEN. REMOVE CONTACT LENSES IF WORN. GET MEDICAL HELP IF SYMPTOMS PERSIST.

SECTION VII --- PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED **ABSORB WITH SAND, DIATOMACEOUS EARTH, VERMICULITE, RICE HULL ASH, OR OTHER ABSORBENT MATERIAL**

WASTE DISPOSAL METHOD **SMALL SPILL: ABSORB AS ABOVE. LARGE SPILL: ELIMINATE ALL IGNITION SOURCES. ABSORB OR RECOVER SPILL. OBSERVE WASTE WATER STANDARDS, DISPOSE OF WASTE PROPERLY.**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING **AVOID SPARKS, FLAMES, CIGARETTES, ETC.**

OTHER PRECAUTIONS **KEEP CONTAINERS CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN. DO NOT TRANSFER INTO UNMARKED OR UNAPPROVED PLASTIC CONTAINERS.**

SECTION VIII --- CONTROL MEASURES

RESPIRATORY PROTECTION (Specify Type) **IF CONCENTRATION OF VAPORS EXCEEDS TLV LIMITS, INCREASE VENTILATION OR USE RESPIRATOR. GENERALLY NOT NEEDED.**

VENTILATION LOCAL EXHAUST **IF NEEDED. GENERALLY NOT NEEDED.**

PROTECTIVE GLOVES **NITRILE OR NEOPRENE** EYE PROTECTION **IF EXPOSED TO SPLASHING**

OTHER PROTECTIVE CLOTHING OR EQUIPMENT **IMPERVIOUS CLOTHING OR BOOTS**

WORK/HYGIENIC PRACTICES **WASH THOROUGHLY AFTER HANDLING.**

SECTION IX --- ENVIRONMENTAL INFORMATION

VOC CONTENT: **773 g/L (6.45 Lbs/Gal)**

**Meets Mil Spec PD-680, Type 1 as a dry cleaning fluid (leaves no residue)
Non-photochemically reactive. Meets Calif. SCAQMD Rule 102 and BAAQMD Regulation 8
Contains no chlorinated solvents, CFC's, benzene, toluene or xylene**