

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) OIL-FLO™ 141 SAFETY SOLVENT CLEANER	ACUTE HEALTH FIRE REACTIVITY NFPA 1 1 0 0=LEAST 1=SLIGHT 2=MODERATE 3=HIGH 4=EXTREME
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Section 1

MANUFACTURER'S NAME TITAN LABORATORIES	EMERGENCY TELEPHONE NUMBER SEE BELOW OR 800-255-3924 EMERG'Y ONLY
ADDRESS 2235 MORA DR. MOUNTAIN VIEW, CA 94040	TELEPHONE NUMBER FOR INFORMATION 650-965-9900, 800-475-3300 • FAX 650.964.4400
	DATE PREPARED February 28, 2004V2.5

Section II --- Hazardous Ingredients/Identify Information

HAZARDOUS COMPONENTS (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	% (optional)
ALIPHATIC PETROLEUM DISTILLATES CAS # 64742-96-7	588PPM		>20%
GLYCOL ETHER E-B CAS # 111-76-2	50PPM		1 to 4%

**CONTAINS NO BENZENE, CHLORINATED HYDROCARBONS OR CFC's.
 NOT PHOTOCHEMICALLY REACTIVE.
 BIODEGRADABLE. USDA APPROVED.**

Section III --- Physical/Chemical Characteristics

BOILING POINT 370 - 550°F	SPECIFIC GRAVITY (H ₂ O = 1) 0.834
VAPOR PRESSURE (MM HG) <1 mm Hg @ 25°F	MELTING POINT NOT APPLIC. VOC 733 g/L
VAPOR DENSITY (AIR = 1) >5	EVAPORATION RATE (N-Butyl Acetate = 1) < 0.10
SOLUBILITY IN WATER 100% COMPLETE	pH: 7.0
APPEARANCE AND ODOR	COLORLESS TO SLIGHTLY COLORED LIQUID, LOW ODOR

Section IV --- Fire and Explosion Hazard Data

FLASH POINT (METHOD USED) 160°F T.C.C.	FLAMMABLE LIMITS	LEL 0.6	UEL 7
EXTINGUISHING MEDIA	FOAM, CARBON DIOXIDE OR DRY CHEMICALS		

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

[OIL-FLO 141 MSDS, PG. 2, V2.5]

STABILITY : **STABLE**INCOMPATIBILITY Materials to Avoid) **STRONG OXIDIZING AGENTS HYPOCHLORITES, CHLORINE**HAZARDOUS DECOMPOSITION OR BYPRODUCTS **NORMAL COMBUSTION, CARBON DIOXIDE AND WATER VAPOR. INCOMPLETE COMBUSTION, CARBON MONOXIDE AND TOXIC MATERIALS**HAZARDOUS POLYMERIZATION: **WILL NOT OCCUR**

Section VI --- Health Hazard Data

ROUTE(S) OF ENTRY:	INHALATION?	SKIN?	INGESTION?
	YES	YES	YES

HEALTH HAZARDS (Acute and Chronic) **PROLONGED INHALATION OF VAPORS: NAUSEA, DROWSINESS • SKIN: LOCAL IRRITATION, DRYNESS, CHAPPING OR DERMATITIS • INGESTION: DIARRHEA, NAUSEA, CRAMPS. UNCONSCIOUSNESS. DEATH IN EXTREME CASES. • EYES: IRRITATION**

CARCINOGENICITY:	NTP?	IARC MONOGRAPHS?	OSHA REGULATED?
	NONE KNOWN	NONE	NO

SIGNS AND SYMPTOMS OF EXPOSURE **SEE "HEALTH HAZARDS"**

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. GET MEDICAL HELP. • EYES: FLOOD WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. REMOVE CONTACT LENSES IF WORN. GET MEDICAL HELP.

Section VII --- Precautions for Safe Handling and UseSTEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED **ABSORB WITH SAND, DIATOMACEOUS EARTH, RICE HULL ASH, OR OTHER ABSORBENT MATERIAL. OR DILUTE WITH WATER TO ACCEPTABLE WASTE WATER RATIO, OR CONTAIN WITH TEMPORARY DAM AND COLLECT SPILL FOR REUSE. TURNS MILKY WHITE WHEN MIXED WITH WATER.**WASTE DISPOSAL METHOD **SMALL SPILL: ABSORB AS ABOVE OR RINSE WITH WATER. LARGE SPILL: OBSERVE WASTE WATER STANDARDS, DISPOSE OF WASTE PROPERLY.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING **AVOID SPARKS AND OPEN FLAME.**

OTHER PRECAUTIONS

KEEP CONTAINERS CLOSED WHEN NOT IN USE. KEEP AWAY FROM VEGETATION UNLESS WELL DILUTED. DO NOT TRANSFER INTO UNMARKED CONTAINERS.

Section VIII --- Control MeasuresRESPIRATORY PROTECTION (Specify Type) **IF CONCENTRATION OF VAPORS EXCEEDS TLV LIMITS, INCREASE VENTILATION OR USE RESPIRATOR.**VENTILATION LOCAL EXHAUST **IF 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, UNDER RINGS AND WATCHBANDS ALSO.