

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™ SAFETY SOLVENT CLEANER	ACUTE HEALTH	FIRE	REACTIVITY
	NFPA 1 2 - LEAST 1 - SLIGHT	2 2 - MODERATE	0 3 - HIGH 4 - EXTREME

Section I

MANUFACTURER'S NAME TITAN LABORATORIES	EMERGENCY TELEPHONE NUMBER SEE BELOW OR 800-255-3924 EMERG'Y ONLY
ADDRESS 2235 MORA DRIVE MOUNTAIN VIEW, CA 94040	TELEPHONE NUMBER FOR INFORMATION 650-965-9900, 800-475-3300 FAX 650.864.4400
DATE PREPARED 03/30/88 V7.8	

Section II -- Hazardous Ingredients/Identify Information

HAZARDOUS COMPONENTS (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	OTHER LIMITS	% (OPTIONAL)
1. AROMATIC HYDROCARBONS CAS # 64742-96-6			200 PPM	> 20%
2. GLYCOL ETHER EB CAS # 111-76-2	50 PPM			1 to 4%

**CONTAINS OTHER INGREDIENTS NOT IDENTIFIED AS HAZARDOUS WITHIN OSHA'S HAZARD
 COMMUNICATION STANDARD 29 CFR 1910.1200.**
CONTAINS NO BENZENE, CHLORINATED HYDROCARBONS OR CFC's.

Section III -- Physical/Chemical Characteristics

BOILING POINT	290°F	SPECIFIC GRAVITY (H ₂ O = 1)	0.83
VAPOR PRESSURE (MM HG)	0.078 mm Hg @ 25°C	MELTING POINT	NOT APPLICABLE
VAPOR DENSITY (AIR = 1)	> 3.4	EVAPORATION RATE (n-Butyl Acetate = 1)	0.01
SOLUBILITY IN WATER	COMPLETE	pH: (H ₂ O = 7)	7.8
APPEARANCE AND ODOR	COLORLESS TO AMBER LIQUID, SOLVENT ODOR WITH ODOR MASK.		

Section IV -- Fire and Explosion Hazard Data

FLASH POINT (METHOD USED)	130°F, PMCC	FLAMMABLE LIMITS	LEL	1.1%	UEL	8.6%
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. NORMAL COMBUSTION CAUSES CO₂
 AND WATER VAPOR. INCOMPLETE COMBUSTION CAN FORM CO

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

101L-FLO MSDS PG.2 V7.81

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? **YES** SKIN? **YES** INGESTION? **YES**HEALTH HAZARDS (Acute and Chronic) **PROLONGED INHALATION OF VAPORS: NAUSEA, DROWSINESS, LIGHTEADNESS (NARCOSIS), SKIN: LOCAL IRRITATION, DRYNESS, CHAPPING OR DERMATITIS • INGESTION: DIARRHEA, NAUSEA, CRAMPS. UNCONSCIOUSNESS AND DEATH IN EXTREME CASES. • EYES: IRRITATION**CARCINOGENICITY: NTP? **NONE KNOWN** IARC MONOGRAPHS? **NONE** OSHA REGULATED? **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 COMPLETELY 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 Use**STEPS 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 Measures**RESPIRATORY PROTECTION (Specify Type) **IF CONCENTRATION OF VAPORS EXCEEDS TLV LIMITS, INCREASE VENTILATION OR USE RESPIRATOR.**VENTILATION LOCAL EXHAUST **IF NEEDED, ADEQUATE VENTILATION REQUIRED.**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.