

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 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 EMERGENCY ONLY

ADDRESS
**2235 MORA DRIVE
MOUNTAIN VIEW, CA 94040**

TELEPHONE NUMBER FOR INFORMATION
650-965-9900, 800-475-3300 FAX 650.964.4400

DATE PREPARED **August 24, 2011 V7.9**

Section II --- Hazardous Ingredients/Identify Information

HAZARDOUS COMPONENTS (Specific Chemical Identity; Common Name(s))

OSHA PEL ACGIH TLV OTHER LIMITS % (OPTIONAL)

1. AROMATIC HYDROCARBONS	200 PPM	>20%	CAS #
64742-96-6			
2. GLYCOL ETHER EB	50 PPM		1 to 4%
CAS # 111-76-2			

**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)	0.93
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

[OIL-FLO MSDS PG.2 V7.9]

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 MATERIALSHAZARDOUS 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• LIGHTEADNESS (NARCOSIS), SKIN: LOCAL IRRITATION, DRYNESS, CHAPPING OR DERMATITIS • INGESTION; DIARRHEA, NAUSEA, CRAMPS. UNCONSCIOUSNESS AND 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 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.**TRANSPORT INFORMATION**

DOT Information - **49 CFR 172.101.** DOT Description : **NON-REGULATED BY D.O.T.** Container/Mode: **55 GAL DRUM/TRUCK PACKAGE. ALSO 5-GAL PAILS, GALLON JUGS, PINTS.** NOS Component: **AROMATIC PETROLEUM DISTILLATES.** RQ (Reportable Quantity) - **49 CFR 172.101**

Product Quantity	Component
10,149 Lbs	XYLENES (O-,M-, P- ISOMERS)
46,296 Lbs	DIETHANOLAMINE