

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**

NFPA Rating:



ACUTE HEALTH

1

FIRE

2

REACTIVITY

0

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

SECTION 1 --- MANUFACTURER'S IDENTIFICATION

TITAN LABORATORIES, INC.

ADDRESS

2935 IRVING BLVD, #209
Dallas, TX 75247 USA

Transportation Emergency Telephone Number

800-255-3924

Manufacturer Contact Phone

800-475-3300 // 214-638-1200

Date: December 12, 2012 V2.54

SECTION 2 --- HAZARDOUS INGREDIENTS/IDENTIFY INFORMATION

<i>HAZARDOUS COMPONENTS (Specific Chemical Identity; Common Name(s))</i>	<i>OSHA PEL</i>	<i>ACGIH TLV</i>	<i>% (optional)</i>
AROMATIC HYDROCARBONS CAS # 64742-96-6	200 PPM		>20%
GLYCOL ETHER EB CAS # 111-76-2	50 PPM		> 4%

Contains other ingredients not identified as hazardous within OSHA's hazard communication standard 29 CFR 1910.1200. Contains no benzene, chlorinated hydrocarbons or CFCs.

SECTION 3 --- PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT	290°F	SPECIFIC GRAVITY (H₂O = 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: (H₂O = 7)	7.8
APPEARANCE AND ODOR	COLORLESS TO AMBER LIQUID, SOLVENT ODOR WITH ODOR MASK.		

SECTION 4 --- 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 5 --- REACTIVITY DATA

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 6 --- HEALTH HAZARD DATA

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

HEALTH HAZARDS (Acute and Chronic) **PROLONGED INHALATION OF VAPORS:** NAUSEA, DROWSINESS • LIGHtheadNESS (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 7 --- 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 8 --- 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.

SECTION 9 --- ENVIRONMENTAL AND TRANSPORT INFORMATION

VOC CONTENT: 733g/L (6.1 Lbs/Gal) // 78.6%

Meets or exceeds federal specification V V-K-220.

CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. [22 CCR 12705 (b)]

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: ALIPHATIC PETROLEUM DISTILLATES.

For more information contact Titan Laboratories at (214) 638-1200.