

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) <b>HAND CLEANER 38™</b>	ACUTE HEALTH <b>NFPA 0</b>	FIRE <b>1</b>	REACTIVITY <b>0</b>
	0 = LEAST 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME		

**Section 1**

MANUFACTURER'S NAME <b>TITAN LABORATORIES</b>	EMERGENCY TELEPHONE NUMBER <b>SEE BELOW OR 800-255-3924 EMERG'Y ONLY</b>
ADDRESS <b>2235 MORA DRIVE MOUNTAIN VIEW, CA 94040</b>	TELEPHONE NUMBER FOR INFORMATION <b>650-965-9900 • 800-475-3300 • FAX 650.964.4400</b>
	DATE PREPARED <b>04/15/2008 V1.3</b>

**Section II --- Hazardous Ingredients/Identify Information**

HAZARDOUS COMPONENTS (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	OTHER LIMITS	% (OPTIONAL)
<b>1. PETROLEUM DISTILLATES CAS # 64742-96-6</b>			<b>200 PPM</b>	<b>&gt;20%</b>

**BIODEGRADABLE. CONTAINS CRUSHED WALNUT SHELLS  
 CONTAINS NO BENZENE, CHLORINATED HYDROCARBONS OR CFC's.**

**Section III --- Physical/Chemical Characteristics**

BOILING POINT <b>290°F</b>	SPECIFIC GRAVITY (H <sub>2</sub> O = 1) <b>0.86</b>
VAPOR PRESSURE (MM HG) <b>0.078 mm Hg @ 25°C</b>	MELTING POINT <b>NOT APPLICABLE</b>
VAPOR DENSITY (AIR = 1) <b>ND</b>	EVAPORATION RATE (N-Butyl Acetate = 1) <b>ND</b>
SOLUBILITY IN WATER <b>COMPLETE</b>	pH: (H <sub>2</sub> O = 7) <b>7.8</b>
APPEARANCE AND ODOR	<b>LOTION, DARK COLOR, WITH GROUND WALNUT SHELLS</b>

**Section IV --- Fire and Explosion Hazard Data**

FLASH POINT (METHOD USED) <b>&gt;150°F, PMCC</b>	FLAMMABLE LIMITS	LEL	UEL
EXTINGUISHING MEDIA	<b>FOAM, CARBON DIOXIDE OR DRY CHEMICALS</b>		

SPECIAL FIRE FIGHTING PROCEDURES **WEAR SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE. NORMAL COMBUSTION CAUSES CO<sub>2</sub> AND WATER VAPOR. INCOMPLETE COMBUSTION CAN FORM CO.**

UNUSUAL FIRE AND EXPLOSION HAZARDS **NONE**

## Section V --- Reactivity Data

HAND CLEANER 38, PG.2 V1.3

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?
	<b>NO</b>	<b>NO</b>	<b>YES</b>

HEALTH HAZARDS (Acute and Chronic) **PROLONGED INHALATION OF VAPORS: NAUSEA, DROWSINESS LIGHTEADEDNESS (NARCOSIS). • SKIN: EXTENDED CONTACT (IF NOT RINSED), POSSIBLE LOCAL IRRITATION, DRYNESS, CHAPPING OR DERMATITIS • INGESTION; DIARRHEA, NAUSEA, CRAMPS.. • EYES: IRRITATION**

CARCINOGENICITY:	NTP?	IARC MONOGRAPHS?	OSHA REGULATED?
	<b>NONE KNOWN</b>	<b>NONE</b>	<b>NO</b>

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. IF IRRITATION DEVELOPS, USE HAND LOTION OR DISCONTINUE USING PRODUCT. • 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 IF IRRITATION PERSISTS.**

## 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. A LARGE SPILL IS UNLIKELY BECAUSE OF SMALL-SIZE PACKAGING.**

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. DO NOT TRANSFER INTO UNMARKED CONTAINERS.**

## Section VIII --- Control Measures

RESPIRATORY PROTECTION (Specify Type) **GENERALLY NOT REQUIRED**

VENTILATION LOCAL EXHAUST **GENERALLY NOT REQUIRED.**

PROTECTIVE GLOVES **NOT REQUIRED** EYE PROTECTION **AVOID EYE CONTACT DURING HAND WASHING.**

OTHER PROTECTIVE CLOTHING OR EQUIPMENT **NONE**

WORK/HYGIENIC PRACTICES **RINSE AFTER APPLYING TO HANDS. • DRY HANDS COMPLETELY. • FREQUENT WASHING AND COLD WEATHER AGGRAVATE DERMATITIS. • USE LOTION IF HANDS BECOME IRRITATED.**