#### **MATERIAL SAFETY DATA SHEET**

TITAN INDUSTRIAL CHEMICALS LLC, GROVER, MO. 63040 EMERGENCY# 877-273-9030

**EFFECTIVE DATE:** 3-10-08

PRODUCT CODE:423

PRODUCT NAME: "LIQUIDATE"

MSD:423-1

HAZARDOUS INGREDIENTS (TYPICAL VALUES -- NOT SPECIFICATION)
AROMATIC PETROLEUM NAPHTHA; CAS #64742-95-6; ACGIH TWA 100PPM SODIUM HYDROXIDE; CAS #1310-73-2; ACGIH TLV 2MG/M3 CEILING

Section 1

Boiling Point:260 deg.F

Vap. Press. (mmHg @ 25°C):N/A

Vap. Density (Air = 1):N/A

pH: 12.0

Physical Data

Sol. In Water: COMPLETE Sp. Gravity (@25/25°C): 1.02

% Volatile by Volume: 75.1% incldg. H20

EVAP. RATE (ETHYL ETHER=1):<1

Appearance and Odor: CLEAR, AMBER COLORED, SLIGHTLY VISCOUS LIQUID. HYDROCARBON ODOR.

Section 2

Fire and Explosion Hazard Data

Flammable Limits:

Flash Point: NONEeg. F Method Used: T.C.C.

LEL (% Vol):N/A UEL (% Vol):N/A

Extinguishing Media: WATER FOG, FOAM, DRY CHEMICAL, OR CO2. USE MEDIA SUITABLE FOR SURROUNDING FIRE.

<u>Special Fire Fighting Equipment and Hazards:</u>EVACUATE HAZARD AREA OF PERSONNEL. WEAR PROPER PROTECTIVE CLOTHING INCLUDING A NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE-EXPOSED CONTAINERS WITH WATER.

Section 3

Reactivity Data

Stability:STABLE

Incompatibility: STRONG OXIDIZING AGENTS.

Hazardous Decomposition Products: CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

Hazardous Polymerization: WILL NOT OCCUR.

Section 4

# Spill, Leakage, and Disposal Procedures

Action to be taken for Spills (Use Appropriate Safety Equipment): SOAK UP WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER INERT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH RESIDUE WITH WATER.

<u>Disposal Method:</u>PLACE IN A DISPOSAL FACILITY APPROVED UNDER RCRA REGULATIONS FOR HAZARDOUS WASTE. CONSULT FEDERAL, STATE AND LOCAL REGULATIONS. IF NOT DILUTED OR NEUTRALIZED THIS PRODUCT COULD BE CONSIDERED HAZARDOUS WASTE DUE TO pH=12.0. NEUTRALIZE WITH DILUTE ACID SUCH AS ACETIC OR 6 MOLE HYDROCHLORIC. HAZARDOUS WASTE NO. D002.

Section 5

# Health Hazard Data -- Effect of Overexposure

Ingestion: MAY RESULT IN VOMITING; ASPIRATION OF VOMITUS INTO THE LUNGS MUST BE AVOIDED. MAY RESULT IN CHEMICAL PNEUMONITUS AND PULMONARY EDEMA/HEMORRHAGE. MAY CAUSE SEVERE IRRITATION TO MOUTH, THROAT, GASTROINTESTINAL TRACT.

Eye Contact: MAY CAUSE MODERATE TO SEVERE IRRITATION DEPENDING ON AMOUNT AND LENGTH OF EXPOSURE.

Skin Contact: PROLONGED OR REPEATED CONTACT MAY CAUSE DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS.

Skin Absorption: WILL NOT OCCUR.

<u>Inhalation:</u>HIGH CONCENTRATIONS OR PROLONGED EXPOSURE TO LOWER CONCENTRATIONS MAY BE SLIGHTLY IRRITATING TO MUCOUS MEMBRANES.

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Section 6

First Aid

Eyes: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING UPPER AND LOWER EYELIDS OPEN. GET MEDICAL ATTENTION.

<u>Skin:</u>WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES AND LAUNDER BEFORE RE-USE. IF IRRITATION IS EVIDENT GET MEDICAL ATTENTION.

<u>Inhalation:</u>MOVE PERSON TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

<u>Ingestion:</u>DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF MATERIAL INTO LUNGS. GET MEDICAL ATTENTION.

### SUPPLEMENTAL HEALTH INFORMATION (ACUTE TOXICITY DATA):

Eyes: NOT AVAILABLE

Skin: NOT AVAILABLE.

Respiratory: NOT AVAILABLE

<u>Oral:</u>IF MORE THAN 2ml. PER KG. HAS BEEN INGESTED AND VOMITING HAS NOT OCCURRED, EMESIS SHOULD BE INDUCED WITH SUPERVISION. KEEP VICTIM'S HEAD BELOW HIPS TO PREVENT ASPIRATION. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE WITH A CUFFED ENDOTRACHEAL TUBE SHOULD BE CONSIDERED.

Systemic: NOT AVAILABLE

CARCINOGENICITY:NTPNOIARC:NOOSHAREGULATED?:YES-SODIUMHYDROXIDE

Section 7

### **Special Handling Information**

<u>Ventilation:</u>GOOD ROOM VENTILATION IS ADEQUATE. DO NOT USE IN CONFINED, NON-VENTILATED AREAS.

<u>Respiratory Protection:</u>NONE REQUIRED FOR INTENDED USE OF PRODUCT. IF TLV IS TO BE EXCEEDED USE ORGANIC VAPOR RESPIRATOR.

Protective Clothing: WEAR IMPERVIOUS GLOVES AND CLOTHING AS NECESSARY TO AVOID SKIN CONTACT.

Eve Protection: WEAR CHEMICAL SPLASH GOGGLES.

Section 8

#### **Special Precautions and Additional Information**

<u>Precautions to be Taken in Handling and Storage:</u>KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME. KEEP CONTAINERS TIGHTLY CLOSED. STORE AWAY FROM STRONG OXIDIZING AGENTS IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. TREAT EMPTY CONTAINERS AS IF THEY WERE FULL DUE TO PRESENCE OF PRODUCT RESIDUE.

Additional Information: HMIS...2,0,0,B

**SECTION 9** 

### **D.O.T. SHIPPING INFORMATION**

PROPER SHIPPING NAME: LIQUID CLEANING COMPOUND

HAZARD CLASS: NONE

LABEL REQUIREMENTS: NONE

EMERGENCY RESPONSE GUIDE NO.: NOT APPLICABLE

ID NO.: NOT APPLICABLE

SECTION 10

### **ENVIRONMENTAL INFORMATION**

RCRA WASTE NO.: D002

REPORTABLE QUANTITY (CERCLA): 1,000# SODIUM HYDROXIDE.

NFPA: 2,0,0

THRESHOLD PLANNING QUANTITY: NONE

SARA TITLE III, SEC. 313: AROMATIC PETROLEUM NAPHTHA IS SUBJECT TO REPORTING.

# CONSULT TITAN INDUSTRIAL CHEMICALS LLC, FOR FURTHER INFORMATION.

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