

VALVOLINE OIL CO SUBSIDIARY OF ASHLAND OIL INC. -- TECTYL 891 -- 8030-00-062-6950

=====
Product Identification
=====

Product ID:TECTYL 891

MSDS Date:03/23/1993

FSC:8030

NIIN:00-062-6950

MSDS Number: BTSLY

=== Responsible Party ===

Company Name:VALVOLINE OIL CO SUBSIDIARY OF ASHLAND OIL INC.

Address:200 E MAIN ST

Box:14000

City:LEXINGTON

State:KY

ZIP:40512

Country:US

Info Phone Num:606-264-7000/76

16;FAX 601-429-0537

Emergency Phone Num:800-274-5263

CAGE:72527

=== Contractor Identification ===

Company Name:RALRUBE INC.

Address:36977 FOX GLEN

Box:City:FARMINGTON HILLS

State:MI

ZIP:48331

Country:US

Phone:248-661-0260, FAX 248-661-3941

CAGE:6X798

Company Name:VALVOLINE OIL CO

Address:3499 BLAZER PKY

Box:14000

City:LEXINGTON

State:KY

ZIP:40512

Country:US

Phone:606-357-7206 / 800-274-5263

CAGE:72527

=====
Composition/Information on Ingredients
=====

Ingred Name:ASPHALT (PET)

ROLEUM)
CAS:8052-42-4
RTECS #:CI9900000
Fraction by Wt: 25-40%
Other REC Limits:NONE RECOMMENDED
ACGIH TLV:5 MG/M3; (FUME);9394

Ingred Name:OXYGENATED ALIPHATIC PETROLEUM FRACTION
Fraction by Wt: 1-10%
Other REC Limits:NONE RECOMMENDED

Ingred Name:CALCIUM PETROLEUM SULFONATE
CAS:61789-86-4
Fraction by Wt: 1-10%
Other REC Limits:NONE RECOMMENDED

Ingred Name:STODDARD SOLVENT
CAS:8052-41-3
RTECS #:WJ8925000
Fraction by Wt: 25-40%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:500 PPM
ACGIH TLV:100 PP
M; 9394

Ingred Name:ALIPHATIC PETROLEUM DISTILLATES
CAS:64741-56-6
Fraction by Wt: 10-25%
Other REC Limits:NONE RECOMMENDED

Ingred Name:NAPHTHA, LIGHT AROMATIC
CAS:64742-95-6
Fraction by Wt: 5-10%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:100 PPM (NAPHTHA)
ACGIH TLV:400 PPM (NAPHTHA)

=====
===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chron

ic:EYES:MAY CAUSE IRRITATION.SKIN:MAY CAUSE IRRITATION AND DEFATTING.INGEST:MAY CAUSE GI TRACT IRRITATION.MAY CAUSE LUNG DAMAGE IF VOMITED AFTER INGESTING.INHAL:MAY CAUSE RESPIRATORY IRRITATION AND CNS E FFECTS.
Explanation of Carcinogenicity:STEAM REFINED PETROLEUM HYDROCARBONS ARE POSSIBLE CARCINOGENS.

Effects of Overexposure:SKIN:DERMATITIS.EYES:REDNESS,TEARING,BLURRED VISION.INGEST:NAUSEA,VOMITING,DIARRHEA.INHAL:DIZZINESS,WEAKNESS,FATIGUE,NAUSEA,HEADACHE,POSSIBLE UNCONSCIOUSNESS.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN AND RESPIRATORY AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.

=====
===== First Aid Measures =====

First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH SOAP AND WATER.EYES:FLUSH WITH WATER FOR 15 MINUTES.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED.INGEST:DO NOT INDUCE VOMITING. GET PROMPT QUALIFIED MEDICAL ATTENTION.

=====
===== Fire Fighting Measures =====

Flash Point Method:PMCC

Flash Point:106F,41C

Lower Limits:1.0

Extinguishing Media:REGULAR FOAM,CARBON DIOXIDE,DRY CHEMICAL.WATER OR FOAM CAN CAUSE FROTHING IF SPRAYED INTO BURNING LIQUID.

Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.COOL FIRE EXPOSED CONTAINERS WITH WATER FOG.

Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR,CAN TRAVEL DISTANCES ALONG THE GROUND,AND FLASHBACK AT THE SOURCE.

=====
===== Accidental Release Measures =====

Spill Release Procedures:ELIMINATE SOURCES OF IGNITION.USE PROPER RESPIRATORY AND PROTECTIVE EQUIPMENT.SHUT OFF LEAK IF SAFE.DIKE.SOAK UP WITH A NON-COMBUSTIBLE INERT ABSORBANT(CLAY,SAND);PLACE IN PROPER CONTAINER FOR DISPOSAL.PREVENT RUNOFF TO SEWER.

Neutralizing Agent:NONE

=====
===== Handling and Storage =====

Handling and Storage Precautions:STORE IN

A COOL, DRY, WELL-VENTILATED

PLACE. KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID SOURCES OF IGNITION. USE WITH ADEQUATE VENTILATION.

Other Precautions: GROUND CONTAINERS WHEN TRANSFERRING LIQUIDS. FOLLOW LABEL DIRECTIONS. AVOID BREATHING VAPORS. AVOID SKIN AND EYE CONTACT. EMPTY CONTAINERS MAY BE DANGEROUS; DISPOSE OF PROPERLY.

=====
===== Exposure Controls/Personal Protection =====

Respiratory Protection: WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE A SELF-CONTAINED BREATHING APPARATUS.

Ventilation: LOCAL VENTILATION AT THE WORKSITE; MECHANICAL (GENERAL) VENTILATION TO MAINTAIN TLV/PEL.

Protective Gloves: NEOPRENE, NITRILE.

Eye Protection: CHEMICAL SPLASH GOGGLES.

Other Protective Equipment: PROTECTIVE CLOTHING, AS NEEDED. PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices: WASH HANDS. SEPERATE WORK CLOTHES FROM STREET CLOTHES. LAUNDRY WORK CLOTHES BEFORE REUSE. KEEP FOOD OUT OF THE WORK AREA.

Supplemental Safety
and Health
NONE

=====
===== Physical/Chemical Properties =====

HCC: F4

Boiling Pt: B.P. Text: 308F, 153C

Vapor Pres: 3

Vapor Density: >1

Spec Gravity: 0.9

Evaporation Rate & Reference: