

TOTAL PETROLEUM INC. -- NO. 2 FUEL OIL -- 9140-00-286-5294

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

Product ID:NO. 2 FUEL OIL

MSDS Date:08/08/1988

FSC:9140

NIIN:00-286-5294

MSDS Number: BKMFD

=== Responsible Party ===

Company Name:TOTAL PETROLEUM INC.

Address:E SUPERIOR STREET

City:ALMA

State:MI

ZIP:48801

Country:US

Info Phone Num:517-463-1164

Emergency Phone Num:517-463-1164

Preparer's Name:M. N. MART

IN

CAGE:6G102

=== Contractor Identification ===

Company Name:SAPP BROTHERS PETROLEUM INC.

Address:9915 S 148TH STREET

Box:37305

City:OMAHA

State:NE

ZIP:68137-0305

Country:US

Phone:402-895-2202

CAGE:8W373

Company Name:TOTAL PETROLEUM INC

Address:EAST SUPERIOR STREET

Box:City:ALMA

State:MI

ZIP:48801

Country:US

Phone:517-463-1164

CAGE:6G102

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

Ingred Name:PETROLEUM MID-DISTILLATE

CAS:68476-34-6

Fraction by Wt: 100%

Other REC Limits

:100 MG/M3
OSHA PEL:400 PPM PETR. DIST.
ACGIH TLV:400 PPM RUBBER SOLV.

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: IRRITATION OF ALL BODY TISSUES.
ASPIRATION INTO LUNGS CAN LEAD TO CHEMICAL PNEUMONIA. CHRONIC:
DERMATITIS, PNEUMONITIS, PULMONARY EDEMA, KIDNEY DAMAGE.
Explanation of Carcinogenicity:NONE OF THE CHEMICALS IN THIS PRODUCT IS
LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.
Effects of Overexposure:EYES: MILD IRRITATION. SKIN: IRRITATION,
DERMATITIS. INHALATION: NOSE, THROAT AND LUNG IRRITATION, CENTRAL
NERVOUS SYSTEM DEPRESSION. INGESTION: MOUTH, THROAT AND STOMACH
IRRITATION, NAUSEA, VOMITING, DIARRHEA AND RESTLESSNESS.
ASPIRATION INTO LUNGS WILL CAUSE CHEMICAL PNEUMONIA.
Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF SKIN,
RESPIRATORY OR CENTRAL NERVOUS SYSTEM DISORDERS MAY BE AT INCREASED
RISK FROM EXPOSURE.

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

First Aid:EYE: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES.
GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH
WITH SOAP AND WATER. INHALATION: REMOVE TO FRESH AIR. GIVE
OXYGEN/CPR IF NEEDED. SEE DOCTOR IF BREATHING DIFFICULTIES
CONTINUE. INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.

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

Flash Point Method:PMCC
Flash Point:130F,54C
Autoignition Temp:Autoignition Temp Text:495F
Lower Limits:0.7
Upper Limits:5.0
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY
CHEMICAL.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A
FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED
CONTAINERS WITH WATER SPRAY.
Unusual Fire/Explosion Hazard:COMBUSTIBLE LIQUID. COMBUSTION OR HEAT OF
FIRE MAY PRODUCE

PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT, ELIMINATE SOURCES OF IGNITION, AND VENTILATE AREA AS REQUIRED. ABSORB WITH INERT MATERIAL. PLACE WASTE IN DOT APPROVED CONTAINER FOR DISPOSAL. SPILL AREA MAY BE SLIPPERY. WASH WITH SOAP AND WATER.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED

AREA AWAY FROM HEAT AND IGNITION SOURCES. KEEP CONTAINER CLOSED WHEN NOT IN USE. DO NOT USE AS CLEANING AGENT.

Other Precautions:EMPTY CONTAINERS RETAIN RESIDUE. OBSERVE HAZARD PRECAUTIONS WHEN HANDLING EMPTY CONTAINERS. SPECIAL SLOW LOAD PROCEDURES FOR "SWITCH LOADING" MUST BE FOLLOWED WHEN THIS MATERIAL IS LOADED INTO TANKS PREVIOUSLY CONTAINING GASOLINE.

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

Respiratory Protection:NO

NE NORMALLY NEEDED. IF VENTILATION DOES NOT

MAINTAIN INHALATION EXPOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH-RESPIRATOR SELECTION.

Ventilation:MECHANICAL (GENERAL) VENTILATION IS USUALLY ADEQUATE.

Protective Gloves:PVC, RUBBER GLOVES

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:SAFETY SHOWER AND EYE BATH. INDUSTRIAL TYPE WORK CLOTHING AND APRON AS REQUIRED TO AVOID PROLONGED OR REPEATED CONTACT.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

USE OF THIS HEATING OIL IN NON-FLUE CONNECTED HEATING APPLIANCES CAN RESULT IN PERSONAL INJURY. MATERIALS SIMILAR TO SOME COMPONENTS IN THIS PRODUCT WERE FOUND TO BE MUTAGENIC IN VITRO AND IN VIVO TESTS. RELATIONSHIP TO HUMAN EFFECTS IS NOT KNOWN.

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

I Properties =====

HCC:F4

Boiling Pt:B.P. Text:325F,163C

Vapor Pres: