

APEX OIL CO -- NO.2 FUEL OIL -- 9140-00-286-5294

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

Product ID:NO.2 FUEL OIL

MSDS Date:01/01/1987

FSC:9140

NIIN:00-286-5294

MSDS Number: BPBWY

=== Responsible Party ===

Company Name:APEX OIL CO

Address:8182 MARYLAND AVE

City:ST. LOUIS

State:MO

ZIP:63105-3506

Country:US

Info Phone Num:314-889-9600

Emergency Phone Num:314-889-9600/800-424-9300(CHEMTREC)

CAGE:8P125

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= Contractor Identification ===

Company Name:APEX OIL CO

Address:8182 MARYLAND AVE

Box:City:ST. LOUIS

State:MO

ZIP:63105-3506

Country:US

Phone:800-424-9300/314-889-9600

CAGE:8P125

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

Ingred Name:NO.2 FUEL OIL(COMPLEX MIXTURE OF
PARAFINIC,OLEFINIC,NAPHTHENIC HC + FUSED POLYCYCLIC HC (C10 & HI)
AS BENZENE SOLUBLES.)

CAS:68476-30-2

RTECS #:LS8930000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYCYC

LIC HYDROCARBONS, CAS# 8007-45-2.
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 RAT = 14500MG/KG(NIOSH RTECS 85-86)

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE:MIST/VAPOR MAY CAUSE RESP TRACT
IRRIT, CNS DEPRESS. INGEST:IRRIT, CNS DEPRESS, COMA, DEATH.

SKIN:DERM,DIRECT CONTACT MAY CAUSE EXTREME IRRIT W/SE
VERE ERYTHEMS

& EDEME W/BLISTERING & OPEN SORES. EYE:IRRIT IS POSSIBLE BUT
ANIMAL STUDIES INDICATE IT UNLIKELY.CHRONIC:RENAL
FAILURE,DEGENERATIVE CHANGES OF LIVER/KIDNEY

Explanation of Carcinogenicity:NONE OF THE INGREDIENTS ARE LISTED AS
CARCINOGENS BY IARC, NTP, OR OSHA. AMES TESTS DID NOT INDICATE
MUTAGENIC ACTIVITY.

Effects of

Overexposure:INHAL:GIDDINESS,HEAD,DIZZ,NAU,VOMIT,INCOORDINATION,NAR
COSIS,STUPOR,COMA,UNCONSC,WT LOSS,ANEMIA,WEAKNESS,NERVOUSNESS,RENAL

FAILURE,PAINS IN LIMBS,PERIPHERAL NUMBNESS,PARESTHESIAS.

INGEST:IRRIT GIDDINES S,VERTIGO,HEADACHE,ANESTHETIC STUPOR,CNS
DEPRESS,COMA,DEATH. SKIN:DRYING,CRACKING,DERM,NARCOSIS,RASH OF
PIMPLES & SPOTS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MFG.

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

First Aid:INHAL:REMOVE TO FRESH AIR.STOP BREATH GIVE ARTIF RESP.KEEP
WARM/REST. INGEST:DO NOT INDUCE VOMIT.IF INGEST>1MG/KG REMOVE BY
GASTRIC LAVAGE

BY QUALIF MED PERSONNEL.IF VOMIT KEEP HEAD LOWER

THAN HIPS TO PREVENT PULM ASPIRATION.STOP VOMIT GIVE 30-60ML
FLEET'S PHOSPHO-SODA DILUTED 1:4 W/WATER. SKIN:REMOVE CONTAMIN
CLOTH.WIPE OFF EXCESS W/DRY CLOTH.WASH W/SOAP OR MILD DETERGENT &
LG AMTS WATER 15-20MIN

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

Flash Point Method:TCC

Flash Point:100F,38C

Autoignition Temp:Autoignition Temp Text:>500F

Lower Limits:0.6

Upper Limits:7.5

Extinguishing Media:FOAM,

CARBON DIOXIDE, DRY CHEMICAL, FOR LARGER FIRES USE WATER SPRAY, FOG OR FOAM.

Fire Fighting Procedures:USE SUPPLIED-AIR BREATHING EQPMT FOR ENCLOSED AREAS.COOL EXPOSED CONTAINERS W/WATER SPRAY.CONTINUE WATER SPRAY TIL ENTIRE CONTAINER CONTENTS ARE COOL.(SEE SUPP)

Unusual Fire/Explosion Hazard:DO NOT MIX/STORE W/STRONG OXIDANTS NOR STORE/POUR NEAR IGN SOURCES.DO NOT PRESS/CUT/HEAT/WELD/EXPOSE EMTPY CNTNRS TO IGN SOURCES.VAP HEAVY & TRAVEL & FLASHBACK.

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

Spill Release Procedures:SUT OFF IGN SOURCES.ISOLATE HAZ AREA & RESTRICT ENTRYL.SM:TAKE UP W/SAND/OTHER ABSORBENT MATL.PLACE INTO CONTNRS.LG:DIKE FAR AHEAS TO PREVENT ENTRANCE INTO WATER COURSES &/OR GROUND WATER.OBSERVE LOC/ STATE/FED GOVRT SPILL & WATER QUALITY REGS.

Neutralizing Agent:NONE SPECIFIED BY MFG.

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

Handling and Storage Precautions:AVOID EXCESSIVE INHALATION OR SKIN CONTACT. ISOLATE FROM SOURCES OF IGNITION.

Other Precautions:NONE SPECIFIED BY MFG.

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

Respiratory Protection:MASK W/ORGANIC VAPOR CARTRIDGE IS RECOMMENDED. USE POSITIVE PRESSURE AIR-SUPPLIED ON SCBA IN THE EVENT OF A LARGE SPILL.

Ventilation:LOC EXHAUST:INDOORS USE LAB HOOD.OUTDOORS WORK UPWIND.MECH (GEN) RECOMMENDED FOR USE IN ENCLOSED/SEMIENCLOSED WORK AREA.

Protective Gloves:NEOPRENE, PVC.

Eye Protection:

SPLASH GOGGLES, SAF GLASSES W/SIDESHIELDS

Other Protective Equipment:EMPLOYEE MUST WEAR APPROPRIATE IMPERVIOUS CLOTHING & EQPMT TO PREVENT REPEATED/PROLONGED SKIN CONTACT W/THIS SUBSTANCE.

Work Hygienic Practices:WASH HANDS AFTER HANDLING & PRIOR TO EAT/SMOKE/DRINK.LAUNDRER CONTAMIN CLOTHING PRIOR TO REUSE.DO NOT SMOKE IN WORK AREA.

Supplemental Safety and Health

W/DRAW IMMED IN CASE OF RISING SOUND FROM VENTING SAFETY DEVICE OR ANY DISCOLORATION OF STORAGE TANK DUE TO FI

RE(SUBJECT TO FIRE CHIEF'S
DIRECTIONS). 1ST AID EYE: FLUSH IMMEDIATELY WITH COPIOUS AMOUNTS OF WATER LIFTING EYELIDS 15-20 MINUTES. IN ALL CASES GET MEDICAL ATTENTION.

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

HCC:F4
Boiling Pt: B.P. Text: 350F, 177C
Vapor Pres: 1MM @ 68F
Vapor Density: >5
Spec Gravity: 0.9
Evaporation Rate & Reference: >10, N-BUTYL ACETATE=1
Solubility in Water: INSOLUBLE.
Appearance and Odor: BROWN, SLIGHTLY VISCOUS LIQUID.
Percent Volatiles by Volume: >50

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES
MAY REACT WHEN EXPOSED TO OXIDIZING MATERIALS.
Stability Condition to Avoid: MAY BE IGNITED BY HEAT/SPARKS/FLAME. VAPOR MAY TRAVEL TO IGNITION SOURCES & FLASHBACK. VAPOR EXPLOSION HAZARD INDOORS/OUTDOORS/SEWERS
Hazardous Decomposition Products: THERMAL DECOMPOSITION MAY RELEASE VARIOUS HYDROCARBONS & HYDROCARBON DERIVATIVES INCLUDING CO₂, WATER, ORGANIC ACIDS, & ALDEHYDES.

===== Disposal Considerations =====

Waste Disposal Methods: UNDER EPA RCRA IF PRODUCT BECOMES A WASTE MATERIAL INTENDED FOR DISPOSAL & HAS FLASH POINT