

UNION OIL CO OF CALIFORNIA UNOCAL CHEMICALS DIV -- UNOCAL 76 AVIATION FUEL JET A --  
9130-00-359-2026

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

Product ID:UNOCAL 76 AVIATION FUEL JET A

MSDS Date:05/09/1990

FSC:9130

NIIN:00-359-2026

MSDS Number: BQSDW

=== Responsible Party ===

Company Name:UNION OIL CO OF CALIFORNIA UNOCAL CHEMICALS DIV

Address:1201 W 5TH ST

Box:60455

City:LOS ANGELES

State:CA

ZIP:90060

Country:US

Info Phone Num:213-977-7589

Emergency Phone Num:800-424

-9300(CHEMTREC)/503-641-3222

CAGE:23034

=== Contractor Identification ===

Company Name:76 PRODUCTS CO

Address:1201 W 5TH ST

Box:City:LOS ANGELES

State:CA

ZIP:90017

Country:US

Phone:213-977-7589

CAGE:23034

Company Name:KAL-AERO INC

Address:5605 PORTAGE RD

Box:City:KALAMAZOO

State:MI

ZIP:49002-1721

Country:US

CAGE:6P604

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

Ingred Name:KEROSENE

CAS:64742-81-0

Fraction by Wt: 30-50%

Other REC Limits:NONE RECOMMENDED

Ingred Name:KER

OSENE  
CAS:8008-20-6  
RTECS #:OA5500000  
Fraction by Wt: 50-70%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:100 PPM  
ACGIH TLV:100 PPM 9091

Ingred Name:DIPHENYL (BIPHENYL) (SARA III)  
CAS:92-52-4  
RTECS #:DU8050000  
Fraction by Wt: 0-1.0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.2 PPM  
ACGIH TLV:0.2 PPM; 9293  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:NAPHTHALENE (SARA III)  
CAS:91-20-3  
RTECS #:QJ0525000  
Fraction by Wt: 0-1.0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 PPM/15 STEL  
ACGIH TLV:  
10 PPM/15 STEL; 9293  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYE-MAY CAUSE MILD IRRITATION.  
SKIN-MAY CAUSE SEVERE IRRITATION. INHALATION-BREATHING HIGH  
CONCENTRATIONS MAY CAUSE IRRITATION OF THE NOSE & THROAT & SIGNS OF  
NERVOUS SYSTEM DEPRESSION. INGESTION-INGESTION OF EXCESSIVE  
QUANTITIES MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT & SIGNS OF  
NERVOUS SYSTEM DEPRESSION.  
Explanation of Carcinogenicity:THIS MATERIAL IS A POSSIBLE HUMAN SKIN  
CANCER HAZARD BASED ON TESTS WITH LABORATORY ANIMALS.  
Effects of Overexposure:EYE-MAY CAUSE STINGING, TEARING AND REDNESS.  
SKIN-REDNESS & BURNING, DRYING & CRACKING OF THE SKIN, & SEVERE  
SKIN DAMAGE. INHALED-HEADACHE, DROWSINESS, DIZZINESS, LOSS OF  
COORDINATION, & FATIGUE. INGESTION-HEADACHE, DROWSINESS,

DIZZINESS, LOSS OF COORDINATION & FATIGUE. ASPIRATION HAZARD - LUNG  
INFLAMMATION OR DAMAGE.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYE:FLUSH EYES WITH CLEAN WATER. SKIN:WIPE MATERIAL FROM  
SKIN, REMOVE CONTAMINATED CLOTHING, & FLUSH AREA WITH LARGE AMOUNTS  
OF WATER. INHALED:REMOVE FROM EXPOSURE. BEGIN ARTIFICIAL  
RESPIRATION OR GIVE OXYGEN IF NEEDED THEN GET MEDICAL AT  
TENTION.

INGESTED:ASPIRATION HAZARD. DO NOT INDUCE VOMITING. IF VICTIM IS  
DROWSY/UNCONSCIOUS, PLACE ON LEFT SIDE WITH HEAD DOWN.GET MEDICAL  
ATTENTION IN ALL CASES

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

Flash Point Method:TCC

Flash Point:134F,57C

Autoignition Temp:Autoignition Temp Text:475F

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, HALON, FOAM OR WATER  
SPRAY IS RECOMMENDED.

Fire Fighting Procedures:WEAR APPROPRIATE PROTECTIVE EQUIPMENT INCLU  
DING

RESPIRATORY PROTECTION. STOP SPILL IF IT CAN BE DONE WITHOUT RISK.  
AVOID SPREADING BURNING LIQUID WITH WATER.

Unusual Fire/Explosion Hazard:MATERIAL IS COMBUSTIBLE. VAPORS ARE  
HEAVIER THAN AIR, MAY ACCUMULATE IN LOW AREAS. IF CONTAINER IS NOT  
PROPERLY COOLED IT MAY EXPLODE IN HEAT OF FIRE.

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

Spill Release Procedures:KEEP ALL SOURCES OF IGNITION AWAY FROM  
SPILL/RELEASE. STAY UP WIND AND AWAY FROM SPILL/RE  
LEASE. ISOLATE

HAZARD AREA AND LIMIT ENTRY. STOP RELEASE. SPILLED MATERIAL MAY BE  
ABSORBED INTO AN APPROPRIATE ABSORBENT MATERIAL. NOTIFY FIRE  
AUTHORITIES.

Neutralizing Agent:NONE

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

Handling and Storage Precautions:KEEP CONTAINERS TIGHTLY CLOSED. USE &  
STORE THIS MATERIAL IN COOL, DRY, WELL VENTILATED AREAS AWAY FROM  
HEAT & ALL SOURCES OF IGNITION.

Other Precautions:"EMPTY" CONTAINERS MAY CONTAIN RESIDUE AND/

OR FUMES

WHICH ARE EXPLOSIVE. DO NOT CUT, WELD, ETC. POST "NO SMOKING OR OPEN FLAME". BOND AND GROUND ALL EQUIPMENT WHEN TRANSFERRING MATERIAL.

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

Respiratory Protection:THE USE OF RESPIRATORY EQUIPMENT IS ADVISED WHEN CONCENTRATIONS EXCEED THE ESTABLISHED EXPOSURE LIMITS.

Ventilation:IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE, ADDITIONAL VENTILATION OR EXHAUST SYSTEMS MAY BE REQUIRED.

Protective Gloves

:THE USE OF GLOVES IS ADVISED.

Eye Protection:APPROVED EYE PROTECTION IS RECOMMENDED.

Other Protective Equipment:IT IS SUGGESTED THAT A SOURCE OF CLEAN WATER BE AVAILABLE IN THE OWRK AREA FOR FLUSHING EYES AND SKIN.

Work Hygienic Practices:IMPERVIOUS CLOTHING SHOULD BE WORN. WASH AFTER HANDLING.

Supplemental Safety and Health

WARNING. COMBUSTIBLE LIQUID!!!

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

HCC:N1

Boiling Pt:B.P. Text:320-525F

Vapor Density:>1

Spec Gra

vity:0.82

Evaporation Rate & Reference: