

AMOCO OIL CO -- JET FUEL JP-4 -- 9130-00-256-8613

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

Product ID:JET FUEL JP-4
MSDS Date:09/24/1993
FSC:9130
NIIN:00-256-8613
MSDS Number: BNBZX
=== Responsible Party ===
Company Name:AMOCO OIL CO
Address:200 E RANDOLPH DR MC 1408
City:CHICAGO
State:IL
ZIP:60601-6401
Country:US
Info Phone Num:312-856-3907
Emergency Phone Num:800-447-8735 (HEALTH)
Preparer's Name:G.
I. BRESNICK
CAGE:15958
=== Contractor Identification ===
Company Name:AMOCO OIL CO
Address:200 E RANDOLPH DR
Box:City:CHICAGO
State:IL
ZIP:60601-6401
Country:US
Phone:312-856-3907- EM HLTH: 800 447-8735
CAGE:15958

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

Ingred Name:JET FUEL JP-4 (A WIDE BOILING ALIPHATIC AND AROMATIC
DISTILLATE) SEE THE FOLLOWING IDENTIFIABLE COMPONENTS.
RTECS #:NY9340000
Fraction by Wt: 100%
Other REC Limits:USAF 8HR TWA 200 PPM

Ingred Name:T

OLUENE (SARA III)

CAS:108-88-3

RTECS #:XS5250000

Fraction by Wt: 22% %

Other REC Limits:NONE SPECIFIED

OSHA PEL:200 PPM/150 STEL

ACGIH TLV:50 PPM; 9293

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:XYLENES (O-,M-,P- ISOMERS) (SARA III)

CAS:1330-20-7

RTECS #:ZE2100000

Fraction by Wt: 10% %

Other REC Limits:NONE SPECIFIED

OSHA PEL:100 PPM/150 STEL

ACGIH TLV:100 PPM/150STEL;9192

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:ETHYL BENZENE (SARA III)

CAS:100-41-4

RTECS #:DA0700000

Fraction by Wt: 2% %

Other REC Limits:NONE SPECIFIED

OSHA PEL:100 PPM/125 STEL

ACGIH TLV:100 PPM/125STEL 9192

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:BENZENE (SARA III)

CAS:71-43-2

RTECS #:CY1400000

Fraction by Wt: 4% %

Other REC Limits:NONE SPECIFIED

OSHA PEL:1PPM/5STEL;1910.1028

ACGIH TLV:10 PPM; A2; 9192

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:CYCLOHEXANE (SARA III)

CAS:110-82-7

RTECS #:GU6300000

Fraction by Wt: 5% %

Other REC Limits:NONE SPECIFIED

OSHA PEL:300 PPM

A

CGIH TLV:300 PPM, 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingrid Name:METHYL TERT-BUTYL ETHER (SARA III)
CAS:1634-04-4
RTECS #:KN5250000
Fraction by Wt: 7% %
Other REC Limits:NONE SPECIFIED
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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

LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT AS A WHOLE
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chroni
c:MAY BE MILDLY IRRITATING TO THE EYES.
PROLONGED OR REPEATED CONTACT MAY CAUSE DERMATITIS. VAPORS MAY
IRRITATE THE NOSE, THROAT AND UPPER RESPIRATORY TRACT AND CAUSE
CENTRAL NERVOUS SYSTEM DEPRESSION. A SPIRATION HAZARD.
Explanation of Carcinogenicity:CONTAINS B [71-43-2] WHICH IS
LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN.
Effects of Overexposure:EYE IRRITATION, SKIN IRRITATION, DERMATITIS,
UPPER RESPIRATORY TRACT IRRITATION, NAUSEA, VOMITING, DIARRHEA,
HEADACHES, DIZZINESS, DROWSINESS.
Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN AND/OR
RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS
PRODUCT.

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

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS
OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING.
WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL
ATTENTION. IN HALATION: REMOVE TO FRESH AIR. RE
STORE BREATHING. GET
MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL
ATTENTION.

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

Flash Point Method:CC
Flash Point:-10F,-23C
Autoignition Temp:Autoignition Temp Text:468F
Lower Limits:1.3 %
Upper Limits:8 %
Extinguishing Media:AGENTS APPROVED FOR CLASS B HAZARDS (DRY CHEMICAL,
CARBON DIOXIDE, HALOGENATED AGENTS, FOAM, STEAM) AND WATER FOG.
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH AP

PROVED SCBA &

FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:DO NOT USE DIRECT STREAM OF WATER ON FIRE. TOXIC GASES ARE RELEASED DURING COMBUSTION. VAPOR MAY EXPLODE IF IGNITED IN ENCLOSED AREA.

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

Spill Release Procedures:ELIMINATE SOURCES OF IGNITION. EVACUATE AREA.

WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT. CONT

AIN SPILL. STOP LEAK

IF CAN DO SO WITHOUT RISK. ABSORB LIQUID WITH SUITABLE ABSORBENT MATERIAL. COLLECT FOR DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A FLAMMABLE LIQUIDS AREA.

STORE AWAY FROM HEAT, IGNITION SOURCES AND OPEN FLAMES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL RULES

Other Precautions:AVOID SKIN CONTACT. LAUNDER CONTAMINATED CLOTHING

BEFORE REUSE.

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

Respiratory Protection:AVOID BREATHING VAPOR AND/OR MIST. USE WITH ADEQUATE VENTILATION. IF VENTILATION IS INADEQUATE, USE NIOSH/MSHA CERTIFIED RESPIRATOR WHICH WILL PROTECT AGAINST ORGANIC VAPOR/MIST.

Ventilation:LOCAL EXHAUST AND MECHANICAL (GENERAL) VENTILATION TO MAINTAIN EXPOSURE LEVELS.

Protective Gloves:IMPERVIOUS

Eye Protection:SAFETY GLASSES OR GOGGLES

Other Protective Equipment:P

ROTECTIVE CLOTHING AS REQUIRED TO AVOID

SKIN CONTACT. AN EMERGENCY EYE WASH STATION AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT AND BEFORE EATING DRINKING OR SMOKING.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

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

HCC:F2

Boiling Pt:B.P. Text:250-549F

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:2-3 PSI

Vapor Density:NOT GIVEN

Spec Grav

ity:0.75 -0.8

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS LIQUID, FUEL OIL ODOR

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:HEAT, OPEN FLAME, SPARKS

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE,
UNIDENTIFIED ORGANIC COMPOUNDS.

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

=

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims

all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.