

CHEVRON CHEMICAL CO AGRICULTURAL CHEMICAL DIV -- AVIATION JP-4 3562790 --
9130-00-256-8613

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

Product ID:AVIATION JP-4 3562790

MSDS Date:03/24/1992

FSC:9130

NIIN:00-256-8613

MSDS Number: BPHZD

=== Responsible Party ===

Company Name:CHEVRON CHEMICAL CO AGRICULTURAL CHEMICAL DIV

Address:575 MARKET ST

Box:3744

City:SAN FRANCISCO

State:CA

ZIP:94119

Country:US

Info Phon

e Num:800-457-2022/ 510-233-3737

Emergency Phone Num:800-457-2022/ 510-233-3737

CAGE:2H740

=== Contractor Identification ===

Company Name:CHEVRON ENVIRONMENTAL HEALTH CENTER INC

Address:15299 SAN PABLO AVE

Box:4054

City:RICHMOND

State:CA

ZIP:94804

Country:US

Phone:800-582-3835

CAGE:0AHD1

Company Name:CHEVRON PRODUCTS CO GLOBAL LUBRICANTS

Address:555 MARKET STREET ROOM 803

Box:City:SAN FRANCISCO

State:CA

ZIP:94105-2870

Country:US

Phone:800-228-3500/415-894-0703

CAGE:2H740

Company Name:CHEVRON RES

EARCH CO
Address:576 STANDARD AVE
Box:City:RICHMOND
State:CA
ZIP:94804
Country:US
Phone:510-237-4411
CAGE:96004

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===== 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:NONE RECOMMENDED

Ingred Name:BENZENE (SARA III)
CAS:71-43-2
RTECS #:CY1400000
Fraction by Wt: < 0.7% %
Other REC Limits:NONE RECOMMENDED
ED
OSHA PEL:1PPM/5STEL;1910.1028
ACGIH TLV:10 PPM; A2; 9293
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:TOLUENE (SARA III)
CAS:108-88-3
RTECS #:XS5250000
Fraction by Wt: < 2.0% %
Other REC Limits:NONE RECOMMENDED
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: < 2.0% %
Other REC Limits:NONE RECOMMENDED
OSHA PEL:100 PPM/150 STEL
ACGIH TLV:100 PPM/15

OSTEL;9293
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: < 0.9% %
Other REC Limits:NONE RECOMMENDED
OSHA PEL:100 PPM/125 STEL
ACGIH TLV:100 PPM/125STEL 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:CYCLOHEXANE (SARA III)
CAS:110-82-7
RTECS #:GU6300000
Fraction by Wt: < 0.5% %
Other REC Limits:NONE RECOMMENDED
OSHA PEL:300 PPM
ACGIH TLV:300 PPM, 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:CUMENE (SARA III)
CAS:98-82-8
RTECS #:GR8575000
Fraction by Wt: < 0.3% %
Other REC Limits:NONE RECOMMENDED
OSHA PEL:S, 50 PPM
ACGIH TLV:S, 50 PPM; 9293
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:NAPHTHALENE (SARA III)
CAS:91-20-3
RTECS #:QJ0525000
Fraction by Wt: < 0.1% %
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

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

Routes of

Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:EYE IRRITATION, SKIN IRRITATION,
CENTRAL NERVOUS SYSTEM EFFECTS, ASPIRATION OF PRODUCT CAN LEAD TO
PNEUMONIA.
Explanation of Carcinogenicity:PRODUCT CONTAINS BENZENE WHICH IS LISTED
AS A CARCINOGEN.
Effects of Overexposure:TRANSIENT EYE IRRITATION, SKIN
IRRITATION/PAIN/BURNING SENSATION/
DISCOLORATION/SWELLING/BLISTERING, HEADACHE, DIZZINE
SS, LOSS OF
APPETITE, WEAKNESS, LOSS OF COORDINATION, LUNG INJURY.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES. REMOVE CONTACT LENSES.
SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN THOROUGHLY WITH SOAP
AND WATER. SEE DOCTOR IF SYMPTOMS PERSIST. INHALATION: IF
RESPIRATORY I RRRITATION OR CENTRAL NERVOUS SYSTEM EFFECTS OCCUR,
MOVE TO FRES
H AIR. IF SYMPTOMS CONTINUE, SEE A DOCTOR. INGESTION:
DO NOT INDUCE VOMITING. GIVE WATER OR MILK AND CONTACT DOCTOR.

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

Flash Point Method:PMCC
Flash Point:-10 TO 30F
Autoignition Temp:Autoignition Temp Text:464F
Lower Limits:1.3 %
Upper Limits:8.0 %
Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, FOAM AND WATER FOG
Fire Fighting Procedures:DO NOT ENTER ANY ENCLOSED OR CONFINED FIRE
SPACE WITHOUT PROPER PROTECTIVE EQUI
PMENT. THIS MAY INCLUDE
SELF-CONTAINED BREATHING APPARATUS.
Unusual Fire/Explosion Hazard:EVAPORATES QUICKLY AND FORMS VAPORS WHICH
CAN CATCH FIRE AND BURN WITH EXPLOSIVE VIOLENCE. VAPOR SPREADS AND
CAN TRAVEL TO REMOTE IGNITION SOURCES.

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

Spill Release Procedures:ELIMINATE ALL SOURCES OF IGNITION IN VICINITY
OF SPILL OR RELEASED VAPOR. CLEAN UP SPILLS IMMEDIATELY, USING
PROPER PERSONAL PROTECTIVE EQUIPMENT.

PREVENT PRODUCT FROM ENTERING

DRAINAGE AND SEWER SYSTEMS AND WATERWAYS. USE ABSORBENT MATERIALS.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:USE ONLY IN WELL VENTILATED AREA. DO NOT USE OR STORE NEAR FLAME, SPARKS OR HOT SURFACES. KEEP CONTAINER CLOSED. REPLACE CAP OR BUNG.

Other Precautions:DO NOT WELD, HEAT OR DRILL CONTAINER. EMPTIED CONTAINERS STILL CONTAIN HAZARDOUS OR EXPLOSIVE VAPOR OR LIQUID.

CAUTION! DO NOT USE PRESSURE TO EMPTY DRUM OR DRUM MAY RUPTURE WITH EXPLOSIVE FORCE.

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

Respiratory Protection:NOT NORMALLY REQUIRED. IF OPERATING CONDITIONS CREATE HIGH AIRBORNE CONCENTRATIONS, THE USE OF AN APPROVED RESPIRATOR IS RECOMMENDED. REFER TO OSHA BENZENE STANDARD TO DETERMINE TYPE OF RESPIRATOR BASED ON EXPOSURE LEVELS.

Ventilation:RECOMMENDED

Protective Gloves:RECOMMENDED

Eye Protection:NOT NORMALLY REQUIRED

Other Protective Equipment:PROTECTIVE CLOTHING TO MINIMIZE SKIN CONTACT, EMERGENCY EYEWASH STATION AND SHOWER

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

Supplemental Safety and Health

DISCARD CONTAMINATED NON-WATERPROOF SHOES AND BOOTS. WASH CONTAMINATED CLOTHING BEFORE REUSE. NOTE TO PHYSICIAN: INGESTION OF THIS PRODUCT OR SUBSEQUENT VOMITING CAN RESULT IN THE ASPIRATION

OF LIGHT

HYDROCARBON LIQUID WHICH CAN CAUSE PNEUMONITIS.

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

HCC:F2

Boiling Pt:B.P. Text:57 - 274C

Melt/Freeze Pt:M.P/F.P Text: