**JP-10**

**MSDS Number**
CFTYV

**National Stock Number**
9135-01-048-5285

**Product Name**
JP-10

**Manufacturer**
KOCH CHEMICAL CO

**Product Identification**
Product ID: JP-10
MSDS Date: 06/21/1996
FSC: 9135
NIIN: 01-048-5285
MSDS Number: CFTYV

**Responsible Party**
KOCH CHEMICAL CO
CORPUS CHRISTI, TX 78403
US
Emergency Phone: 316-828-8488; 800-424-9300 (CHEMTREC)
Info Phone: 512-241-4811
Cage: MO739

**Contractor**
KOCH REFINING CO INC
2608
CORPUS CHRISTI, TX 78403
US
512-241-4811
Cage: 3V260

**Ingredients**
4,7-METHANOINDAN, HEXAHYDRO-, EXO-;
CAS: 2825-82-3
RTECS: PB9600000
Fraction By Weight: 98-100%
OSHA PELN/K
ACGIH TLV: N/K

HYDROCARBON MIXTURE
Fraction By Weight: 0-1.5%
OSHA PELN/K
ACGIH TLV: N/K

IN INVOLVING THIS PROD MAY RELEASE CO, CO₂,
CONT MAY CAUSE IRRIT, REDNESS, TEARING &
IRRITATE NOSE, THROAT & LUNGS. SYMPS MAY INCL SORE
SENSATION, DEPENDING ON CONC & DURATION OF EXPOS. MAY
EXCITATION, EUPHORIA, DIZZ, INCOORDINATION, DROWS, LT
OF CONSCIOUSNESS, COMA, RESP ARREST & DEATH,
MAY CAUSE SYSTEMIC DMG INCL TARGET ORGAN EFTS LISTED
LEVELS ARE NOT KNOWN/ANY OTHER CIRCUMSTANCES WHERE
HAVE ASSOC RPTD & PRLNGD OCCUP OVEREXP TO SOLVS
OVEREXP TO THIS MATL/ITS COMPONENTS MAY CAUSE
CAUSE ADVERSE REPROD &/OR DEVELOPMENTAL EFTS. LONG
SOLV/PAINTER’S SYNDROME). INTENTIONAL MISUSE BY
USE OF ANY HYDROCARB FUEL IN AREA W/OUT ADEQ VENT
GET IMMED MED ATTN. PLACE CONTAMD CLTHG IN

RTECS: 9999999ZZ
CLTHG IS TO BE LAUNCHED, INFORM PERSON PERFORMING
RTECS: 9999999ZZ

FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF
RTECS: 9999999ZZ

AWAY FROM EYEBALL TO ENSURE THOROUGH RINSING. GET IMMEDIATELY
RTECS: 9999999ZZ

INSTITUTE CPR. IF BREATHING IS DIFFICULT, ENSURE CLEAR
RTECS: 9999999ZZ

GASTRIC LAVAGE MAY BE INDICATED IF INGESTED. FOR
RTECS: 9999999ZZ

HAZARDOUS WASTE. DISPOSE OF THIS MATERIAL MUST BE
RTECS: 9999999ZZ

REGULATIONS. FOR MORE INFORMATION CONTACT NEHC.
RTECS: 9999999ZZ

MAY CONTAIN PRODUCTION RESIDUE. DO NOT REUSE WITHOUT
RTECS: 9999999ZZ

USE NIOSH-APPROVED POSITIVE PRESSURE AIR-SUPPLIED RESPIRATOR IF
RTECS: 9999999ZZ

Hazards
LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation: YES Skin: YES Ingestion: YES
Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO
Health Hazards Acute and Chronic: ACUTE: INGEST: PRACTICALLY NON-TOXIC.
MAY CAUSE IRRITATION OF MOUTH, THROAT & GI TRACT. SYMPTOMS MAY INCLUDE
SALIVATION, PAIN, NAUSEA, VOMITING & DIARRHEA. ASPIRATION INTO LUNGS MAY CAUSE
CHEMICAL PNEUMONITIS & LUNG DAMAGE. EXPOSURE MAY ALSO CAUSE CNS SYMPTOMS SIMILAR TO
THOSE LISTED UNDER "INHALATION" (SEE INHALATION SECTION). SKIN: MODERATELY IRRITATING.
(EFFECTS OF OVEREXPOSURE)
Explanation of Carcinogenicity: NOT RELEVANT.
Effects of Overexposure: HEALTH HAZARD: REPEATED/P protracted EXPOSURE MAY CAUSE DRYING,
REDDENING, ITCHING & CRACKING. NO SIGNIFICANT EFFECTS ARE EXPECTED TO OCCUR FOLLOWING SHORT-TERM EXPOSURE. REPEATED/P protracted EXPOSURE WITH LARGE AMOUNTS OF
THIS MATERIAL MAY RESULT IN ABSORPTION THROUGH THE SKIN TO PRODUCE TOXIC EFFECTS.
EYEWASH: MAY CAUSE IRRITATION. EXPOSURE TO VAPORS, FUMES/MISTS MAY CAUSE IRRITATION.
DIRECT INGESTION (INGREDIENT)
Medical Conditions Aggravated by Exposure: PRE-EXISTING MEDICAL CONDITIONS
WHICH MAY BE AGGRAVATED BY EXPOSURE INCLUDE DISORDERS OF THE SKIN,
KIDNEY AND RESPIRATORY SYSTEM.
First Aid
First Aid: INGEST: DO NOT INDUCE VOMIT BECAUSE OF DANGER OF ASPIR LIQ INTO LUNGS, CAUSING SERIOUS DMG & CHEM PNEUM. IF SPONT VOMIT OCCURS KEEP HEAD BELOW HIPS TO PVNT ASPIR & MONITOR FOR BIRTHG DFCLTY. GASTRIC LA VAGE SHOULD BE PERFORMED ONLY BY QUALIFIED MED PERS. GET IMMED MED ATTN. KEEP AFFECTED PERSON WARM & AT REST. SKIN: IMMED WASH W/PLENTY OF SOAP & WATER WHILE REMOVING CONTAMD CLTHG & SHOES. (ING 15)

Fire Fighting
Flash Point: 130F, 54C
Extinguishing Media: USE WATER SPRAY, DRY CHEM, ALCOHOL FOAM, ALL PURPOSE AFFF/CO2 TO EXTING FIRE.
Fire Fighting Procedures: NIOSH APPRVD SCBA & FULL PROT EQUIP. EVAC AREA & FIGHT FROM SAFE DIST. IF LEAK/SPILL HAS NOT IGNITED, VENTILATE AREA & USE WATER SPRAY TO DISPERSE(SUPDAT)
Unusual Fire/Explosion Hazard: VAPS MAY FORM EXPLO MIX W/AIR. VAPS CAN TRAVEL TO SOURCE OF IGNIT & FLASH BACK. EXPLO HAZ IF EXPOSED TO EXTREME HEAT/PHYSICAL/TERM SHOCK. FIRES (ING 3)

Accidental Release
Spill Release Procedures: KEEP IGNIT SOURCES OUT OF AREA & SHUT OFF ALL IGNIT SOURCES. ABSORB SPILL W/INERT MATL (E.G. DRY SAND/EARTH) THEN PLACE IN CHEM WASTE CNTNR. LG SPILLS: DIKE FAR AHEAD OF LIQ SPILL FOR LATER DISP. SHUT OFF LEAK IF SAFE TO DO SO. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Handling
Handling and Storage Precautions: STORE IN TIGHTLY CLSD CNTNRS IN COOL, DRY, ISOLATED, WELL-VENTILATED AREA AWAY FROM HEAT, SOURCES OF IGNIT & INCOMPAT. AVOID CONT W/STRONG OXIDIZERS. Other Precautions: GROUND LINES & EQUIP USED DURING TRANSFER TO REDUCE POSSIBILITY OF STATIC SPARK-INITIATED FIRE/EXPLO. USE NON-SPARKING TOOLS. DO NOT CUT, GRIND, DRILL, WELD/REUSE CNTNRS UNLESS ADEQ PREC ARE TAKEN AGA INST THESE HAZARDS. EMPTY CNTNRS (ING 23)

Exposure Controls
Respiratory Protection: NIOSH APPRVD AIR PURIFYING RESP W/ORG VAP CARTRIDGE/CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE AIRBORNE CONCS ARE EXPECTED TO EXCEED EXPOS LIMITS. PROT PROVIDED BY NIOSH APPRVD AIR PURIFYING RESPS IS LIMITED. (ING 24)
Ventilation: VENTILATION AND OTHER FORMS OF ENGINEERING CONTROLS ARE PREFERRED MEANS OF CONTROLLING EXPOSURES.
Protective Gloves: CHEMICAL PROTECTIVE GLOVES.
Eye Protection: ANSI APPRVD CHEM WORKERS GOGGLES.
Other Protective Equipment: ANSI APPRVD EYE WASH & DELUGE SHOWER. AVOID SKIN CONT W/THIS MATL.
Work Hygienic Practices: DO NOT EAT, DRINK/SMOKE IN AREAS OF USE/STORAGE. USE GOOD PERSONAL HYGIENE. Supplemental Safety and Health PH: ESSENTLY NEUTRAL. FIRE FIGHT PROC: GAS/VAP & TO PROTECT PERS ATTEMPTING TO STOP LEAK. USE WATER SPRAY TO COOL ADJACENT STRUCTURES & TO PROTECT PERS. SHUT OFF SOURCE OF FLOW IF POSS. STAY AWAY FROM ST OR TANK ENDS. W/DRAW IMMED IN CASE OF RISING SOUND FROM VENTING SFTY DEVICE/ANY DISCOLORATION OF STOR TANK DUE TO FIRE.

Chemical Properties
Boiling Pt: B.P. Text: 367F, 186C
Melt/Freeze Pt: M.P/F.P Text: <-111F, <-79
Vapor Pres: Vapor Density: 5
Spec Gravity: 0.943
pH: SUPDAT
Evaporation Rate & Reference: NOT KNOWN
Solubility in Water: NOT KNOW
Appearance and Odor: CLEAR, COLORLESS LIQUID WITH A KEROSENE-LIKE ODOR.
**Stability**

Stability Indicator/Materials to Avoid: YES
INCOMPATIBLE WITH OXIDIZING AGENTS. SEE PRECAUTIONS UNDER HANDLING/STORAGE.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products: COMBUSTION MAY PRODUCE CO, NO*X, SO*X AND REACTIVE HYDROCARBONS.

**Disposal**

Waste Disposal Methods: THIS PROD, AS SUPPLIED, WHEN DISCARDED/DISPOSED OF, IS HAZ WASTE ACCORDING TO FED REGS (40 CFR 261) DUE TO ITS IGNITABILITY. UNDER RCRA, IT IS RESPONSIBILITY OF USER OF PROD TO DETERM, AT TIME OF DISP, WHETHER PROD MEETS RCRA CRITERIA FOR (ING 22)

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.