

SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO. -- JP-4 -- 9130-00-256-8613

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Product Identification
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Product ID:JP-4

MSDS Date:04/16/1992

FSC:9130

NIIN:00-256-8613

MSDS Number: BPBTV

=== Responsible Party ===

Company Name:SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO.

Address:1 SHELL PLAZA

Box:2463

City:HOUSTON

State:TX

ZIP:77001

Country:US

Info Phone Num:713-241-4819

Emergency Phone Num

:713-473-9461

CAGE:86961

=== Contractor Identification ===

Company Name:SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO.

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Country:US

Phone:713-473-9461/800-424-9300(CHEMTREC)

CAGE:93508

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Composition/Information on Ingredients
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Ingred Name:HYDROTREATED HEAVY NAPHTHA

CAS:64742-48-9

Fraction by Wt: 88 - 95%
Other REC Limits:NONE RECOMMENDED

Ingred Name:NAPHTHA (PETROLEUM), LIGHT STRAIGHT RUN
CAS:64741-46-4
RTECS #:QK8000300
Fraction by Wt: 5 - 12%
Other REC Limits:NONE RECOMMENDED

Ingred Name:MINOR ADDITIVES
Fraction by Wt: < 0.5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:BENZENE (SARA III)
CAS:71-43-2
RTECS #:CY1400000
Fraction by Wt: < 2.5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1PPM/5STEL;1910.1028
ACGIH TLV:10 PPM; A2; 9293
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10
LBS

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===== Hazards Identification =====
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:ACUTE- HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES & RESPIRATORY SYSTEM. MAY CAUSE HEADACHE, DIZZINESS, ANESTHESIA, DROWSINESS, UNCONSCIOUSNESS & DEATH. PROLONGED/REPEATED SKIN CONTACT LEADS TO IRRITATION & DERMATITIS. LIQUID CAN IRRITATE EYES. CHRONI
C- MAY CAUSE DERMATITIS, CANCER, LIVER & KIDNEY DAMAGE.

Explanation of Carcinogenicity:THIS PRODUCT CONTAINS BENZENE, A CARCINOGEN ALSO LINKED TO BLOOD, KIDNEY, AND NERVOUS SYSTEM DISORDERS.

Effects of Overexposure:HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES & RESPIRATORY SYSTEM. MAY CAUSE HEADACHE, DIZZINESS, ANESTHESIA, DROWSINESS, UNCONSCIOUSNESS & DEATH. PROLONGED/REPEATED SKIN CONTACT LEADS TO IRRITATION & DERMATITIS. LIQUID CAN IRRITATE EYES.

Medical C

and Aggravated by Exposure: PERSONS WITH PRE-EXISTING SKIN DISORDERS OR IMPAIRED LIVER, KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

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

First Aid: GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN: WASH WITH SOAP & WATER. EYE: FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. INHALED: REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL: DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION. IF CONSCIOUS, DRINK WATER TO DILUTE.

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

Flash Point: -10F, -23C

Lower Limits: 1.3 %

Upper Limits: 8 %

Extinguishing Media: WATER SPRAY, CO₂, FOAM/DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL & FLUSH SPILLS AWAY.

Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard: EVACUATE A RADIUS OF 1500 FEET FOR UNCONTROLLED FIRE. VAPORS ARE HEAVIER THAN AIR & MAY TRAVEL TO A FLAME & FLASH BACK. EXTINGUISH ONLY IF FLOW CAN BE STOPPED.

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

Spill Release Procedures: WEAR PROTECTIVE EQUIPMENTS. SHUT OFF & REMOVE IGNITION SOURCES. VENTILATE AREA. RECOVER FREE PRODUCT. ADD SAND, EARTH/OTHER SUITABLE ABSORBENT AND REMOVE FOR DISPOSAL. KEEP

PRODUCT OUT OF SEWERS AND WATERCOURSES. ADVISE AUTHORITIES IF ENTERED SEWERS.

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

Handling and Storage Precautions: STORAGE- STORE IN COOL, VENTILATED AREA, IN TIGHTLY CLOSED CONTAINERS, AWAY FROM HEAT, FLAMES & OXIDIZERS.

Other Precautions: AVOID BREATHING OF VAPORS. EMPTY CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE

SUCH

CONTAINERS TO HEAT, FLAME, SPARKS -- THEY MAY EXPLODE.

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

Respiratory Protection: WEAR A NIOSH-APPROVED ORGANIC RESPIRATOR IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL/TLV. WEAR SELF-CONTAINED BREATHING APPARATUS IF REQUIRED FOR HIGH LEVELS OF CONTAMINATES.

Ventilation: MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:

NEOPRENE OR NATURAL RUBBER GLOVES

Eye Protection: SPLASH GOGGLES OR FACE SHIELD

Other Protective Equipment: EYE WASH STATION, QUICK DRENCH SHOWER AND IMPERVIOUS CLOTHING

Work Hygienic Practices: USE WITH ADEQUATE VENTILATION. AVOID BREATHING MIST. AVOID CONTACT WITH SKIN & EYES. WASH HANDS AFTER USE.

Supplemental Safety and Health

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

HCC: F2

Boiling Pt: B.P. Text: >100F, >38C

Melt/Freeze Pt: M.P/F.P Text: -72F, -58C

Vapor Pressure:

724

Vapor Density: 3.5

Spec Gravity: 0.7796

Solubility in Water: NEGLIGIBLE

Appearance and Odor: CLEAR AND BRIGHT LIQUID-HYDROCARBON ODOR

Percent Volatiles by Volume: 100

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

Stability Indicator/Materials to Avoid: YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid: HIGH TEMPERATURES, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY, AND OPEN FLAMES

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE

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= Disposal Considerations =====

Waste Disposal Methods:INCINERATE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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