

SUNKYONG LIMITED -- JP-4 -- 9130-00-256-8613

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

Product ID:JP-4

MSDS Date:07/01/1992

FSC:9130

NIIN:00-256-8613

MSDS Number: BPMQT

=== Responsible Party ===

Company Name:SUNKYONG LIMITED

Address:C P O BOX 1780

City:SEOUL REPUBLIC

CAGE:1Y204

=== Contractor Identification ===

Company Name:SUNKYONG LIMITED

Address:C P O BOX 1780

Box:City:SEOUL REPUBLIC

CAGE:1Y204

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

Ingred Name:JP-4

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

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

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 MAY  
CAUSE CNS

DEPRESSION;I.E.HEADACHE,NAUSEA,DROWSINESS,DIZZINESS.ACCIDENTAL  
INGESTION MAY CAUSE SIM

ILAR SYMPTOMS.IT IS AN ASPIRATION HAZARD.MAY

CAUSE EYE IRRITATION,RE DNESS,TEARING & BURNING.PROLONGED/REPEATED  
SKIN CONTACT CAN CAUSE IRRITATION,DEFATTING &  
DERMATITIS.CHRONIC-DERMATITIS.

Explanation of Carcinogenicity:NATURALLY CONTAINS BENZENE.MAY CAUSE  
BLOOD DISEASES INCLUDING LEUKEMIA.VAPORS MAY CAUSE KIDNEY CANCER IN  
MALE RATS.

Effects of Overexposure:HIGH VAPOR CONCENTRATIONS MAY CAUSE CNS  
DEPRESSION; I.E. HEADACHE, NAUSEA, DROWSINESS, DIZZINESS.  
ACCIDENTAL ING

ESTION MAY CAUSE SIMILAR SYMPTOMS. IT IS AN  
ASPIRATION HAZARD. MAY CAUSE EYE IRRITATION, REDNESS, TEARING &  
BURNING. PROLONGED/REPEATED SKIN CONTACT CAN CAUSE IRRITATION,  
DEFATTING & DERMATITIS.

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

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

First Aid: CALL A PHYSICIAN  
IN ALL CASES. EYES: IMMEDIATELY FLUSH WITH  
WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN: WASH WITH SOAP &  
WATER. INHALED: REMOVE TO FRESH AIR & PROVIDE CPR/OXYGEN IF  
NECESSARY. ORAL: DO NOT INDUCE VOMITING. CALL A PHYSICIAN  
IMMEDIATELY. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS.

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

Flash Point: -40F, -40C  
Extinguishing Media: USE CO2, FOAM, DRY CHEMICAL OR HALON. WATER MAY BE  
INEFFECTIVE. PRODUCT FLOATS ON  
SURFACE OF WATER & REIGNITES.  
Fire Fighting Procedures: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT & A  
FULL FACED SELF CONTAINED BREATHING APPARATUS/SUPPLIED-AIR  
RESPIRATOR. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.  
Unusual Fire/Explosion Hazard: SEVERE FIRE & EXPLOSION HAZARD INDOORS,  
OUTDOORS OR SEWERS. VAPORS MAY TRAVEL TO IGNITION SOURCE & FLASH  
BACK.

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

Spill Release Procedures: WEAR PROTECTIVE EQUIPMENTS. ELIM  
INATE ALL  
SOURCES OF IGNITION. USE EXPLOSION-PROOF TOOLS. SHUT OFF FUEL  
SOURCE. DIKE SPILL. PREVENT LIQUID FROM ENTERING  
SEWERS/WATERWAYS. RECOVER FREE LIQUID. ADD SAND, EARTH OR OTHER  
ABSORBENT MATERIAL. TRANSFER TO CONTAINER.

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

Handling and Storage Precautions: STORAGE-STORE IN ACCORDANCE WITH  
NATIONAL FIRE PROTECTION ASSOCIATION REGULATIONS. KEEP CONTAINERS  
CLOSED. HANDLE IN WELL-VENTILATED AREA.

Other Precaution

s:"EMPTY" CONTAINERS RETAIN RESIDUE AND CAN BE DANGEROUS.DO NOT PRESSURIZE,CUT,WELD,BRAZE,SOLDER,DRILL,GRIND OR EXPOSE SUCH CONTAINERS TO HEAT,FLAME,SPARKS.THEY MAY EXPLODE AND CAUSE INJURY/DEATH.AVOID REPEATED OR PROLONGED CONTACT WITH SKIN.

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

Respiratory Protection:WHEN CONCENTRATIONS IN AIR MAY EXCEED THE PERMISSIBLE EXPOSURE LIMIT, AND WHERE ENGINEERING, WORK PRACTICES ARE NOT ADEQUATE, WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OR ORGANIC VAPOR RE SPIRATOR OR SUPPLIED-AIR RESPIRATOR.  
Ventilation:LOCAL/MECHANICAL (GENERAL) VENTILATION - EXPLOSION PROOF, WELL GROUNDED EQUIPMENTS  
Protective Gloves:RUBBER  
Eye Protection:CHEMICAL SPLASH GOGGLES & FACE SHIELD  
Other Protective Equipment:IMPERVIOUS CLOTHING TO AVOID SKIN AND EYE CONTACT. EYE WASH STATION & SAFETY SHOWER.  
Work Hygienic Practices:AVOID CONTACT WITH EYES, SKIN OR CLOTHING. WASH HANDS AFTER USING PRODUCT. AVOID BREATHING VAPORS OR MISTS.  
Supplemental Safety and Health  
FOR USE AS A MOTOR FUEL ONLY. DO NOT USE AS A CLEANING SOLVENT OR FOR OTHER NON-MOTOR FUEL USES. UNDER NORMAL WORKING CONDITIONS AT SERVICE STATIONS, A RESPIRATOR IS NOT WARRANTED.

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

HCC:F2  
Boiling Pt:B.P. Text:149F,65C  
Vapor Pres: 120 @ 38C  
Vapor Density:>1  
Spec Gravity:0.755- 0.800  
Solubility in Water:NEGLIGIBLE  
Appearance and Odor:LIQUID WITH PETROLEUM ODOR

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

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZING AGENTS  
Stability Condition to Avoid:HEAT, SPARKS, OPEN FLAMES, STATIC ELECTRICITY AND OTHER SOURCES OF IGNITION. PREVENT VAPORS ACCUMULATION.  
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE

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

Waste Disposal Methods:TREATMENT, STORAGE, TRANSPORTATION AND DISPOSAL MUST BE IN

ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS. THIS MATERIAL IS CLASSIFIED BY THE EPA AS A HAZARDOUS WASTE UNDER RCRA. NO. D001 IGNITABLE WASTE.

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