

KYUNG IN ENERGY CO. LTD. -- FUEL NAVAL DISTILLATE F-76 -- 9140-00-273-2378

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Product Identification  
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Product ID:FUEL NAVAL DISTILLATE F-76

MSDS Date:01/01/1987

FSC:9140

NIIN:00-273-2378

MSDS Number: BPDZT

=== Responsible Party ===

Company Name:KYUNG IN ENERGY CO. LTD.

Address:HYUNAM BLDG 1 CHANGKYO-DONG

Box:7373

City:CHUNG-KU, SEOUL

Country:KS

CAGE:0SG03

=== Contractor Identification ===

Company Name:KYUNG IN ENERGY CO. LTD.

Address:HYUNAM BLDG 1 CHANGKYO-DONG

Box:7373

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Composition/Information on Ingredients  
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Ingred Name:PETROLEUM MID-DISTILLATE

CAS:68476-34-6

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:400 PPM PETR. DIST.

ACGIH TLV:400 PPM RUBBER SOLV.

Ingred Name:HYDROGEN SULFIDE (SARA III)

CAS:7783-06-4

RTECS #:MX1225000

Fraction by Wt: TRACE

Other REC Limits:NONE RECOMMENDED

OSHA

PEL:(C),20 PPM  
ACGIH TLV:10 PPM/15 STEL; 9293  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

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===== Hazards Identification =====  
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: IRRITATION OF ALL BODY TISSUES.  
ASPIRATION INTO LUNGS AFTER INGESTION CAN LEAD TO CHEMICAL  
PNEUMONIA. CHRONIC: DERMATITIS.  
Explanation of Carcinogenicity:NONE OF THE CHEMICALS IN THIS PR  
ODUCT IS  
LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.  
Effects of Overexposure:EYES: MILD IRRITATION. SKIN: IRRITATION,  
DERMATITIS. INHALATION: NOSE, THROAT AND LUNG IRRITATION, CENTRAL  
NERVOUS SYSTEM DEPRESSION. INGESTION: MOUTH, THROAT AND STOMACH  
IRRITATION, NAUSEA, VOMITING, DIARRHEA AND RESTLESSNESS.  
ASPIRATION INTO LUNGS WILL CAUSE CHEMICAL PNEUMONIA.  
Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF SKIN,  
RESPIRATORY OR CENTRAL NERVOUS SYSTEM DISORDERS  
MAY BE AT INCREASED  
RISK FROM EXPOSURE.

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===== First Aid Measures =====  
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First Aid:EYE: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES.  
GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH  
WITH SOAP AND WATER. INHALATION: REMOVE TO FRESH AIR. GIVE  
OXYGEN/CPR IF NEE DED. SEE DOCTOR IF BREATHING DIFFICULTIES  
CONTINUE. INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.

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===== Fire Fighting Measures =====  
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Flash Point Method:PMCC  
Flash Point:144F,62C  
Autoignition Temp:Autoignition Temp Text:494F  
Lower Limits:0.6 APPROX  
Upper Limits:7.5 APPROX  
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY  
CHEMICAL.  
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A  
FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED  
CONTAINERS WITH WATER SPRAY.  
Unusual Fire/Explosion Hazard:MODERATELY COMBUSTIBLE. CAN BURN IN THE  
OPEN OR BE EX

PLOSIVE IN CONFINED SPACES. COMBUSTION OR HEAT OF FIRE  
MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS/VAPORS.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT, ELIMINATE SOURCES  
OF IGNITION, AND VENTILATE AREA AS REQUIRED. ABSORB WITH INERT  
MATERIAL. PLACE WASTE IN DOT APPROVED CONTAINER FOR DISPOSAL. SPILL  
AREA MAY BE SLIPPERY. WA SH WITH SOAP AND WATER.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED  
AREA AWAY FROM HEAT AND IGNITION SOURCES. KEEP CONTAINER CLOSED  
WHEN NOT IN USE. DO NOT USE AS CLEANING AGENT.

Other Precautions:EMPTY CONTAINERS RETAIN RESIDUE. OBSERVE HAZARD  
PRECAUTIONS WHEN HANDLING EMPTY CONTAINERS. SPECIAL SLOW LOAD  
PROCEDURES FOR "SWITCH LOADING" MUST BE FOLLOWED WHEN THIS MATERIAL  
IS LOADED INTO TANKS P REVIOUSLY CONTAINING GASOLINE.

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

Respiratory Protection:NONE NORMALLY NEEDED. IF VENTILATION DOES NOT  
MAINTAIN INHALATION EXPOSURES BELOW PEL (TLV), USE NIOSH/MSHA  
APPROVED RESPIRATOR AS PER CURRENT 29 CFR 1910.134,  
INSTRUCTIONS/WARNINGS AND NIOSH-RESPIRAT OR SELECTION.

Ventilation:MECHANICAL (GENERAL) VENTILATION IS USUALLY ADEQUATE.

Protective Gloves:PVC, RUBBER GLOVES

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:SAFETY SHOWER AND EYE BATH. IN  
DUSTRIAL TYPE

WORK CLOTHING AND APRON AS REQUIRED TO AVOID PROLONGED OR REPEATED  
CONTACT.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE  
EATING OR DRINKING. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

HYDROGEN SULFIDE CAN COLLECT IN THE HEAD SPACE OF FUEL STORAGE TANKS.

WEAR APPROPRIATE RESPIRATORY PROTECTION WHEN ENTERING STORAGE TANKS.

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

HCC:V4

Boiling Pt:B.P. T

ext:392F,200C

Vapor Pres: