

INDEPENDENT REFINERY , INC. -- JET A-1 -- 9130-00-753-5026

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

Product ID:JET A-1

MSDS Date:08/01/1989

FSC:9130

NIIN:00-753-5026

MSDS Number: BNDSY

=== Responsible Party ===

Company Name:INDEPENDENT REFINERY , INC.

Address:91-315 KOMOHANA STREET

City:EWA BEACH

State:HI

ZIP:96707

Country:US

Info Phone Num:808-547-3222/808-682-4505

Emergency Phone Num:808-547-3900/800

-424-9300(CHEMTREC)

CAGE:0GNJ0

=== Contractor Identification ===

Company Name:INDEPENDENT REFINERY , INC.

Address:91-315 KOMOHANA STREET

Box:City:EWA BEACH

State:HI

ZIP:96707

Country:US

Phone:808-547-3900/800-424-9300(CHEMTREC)

CAGE:0GNJ0

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

Ingred Name:KEROSENE

CAS:8008-20-6

RTECS #:OA5500000

Fraction by Wt: >73% %

Other REC Limits:NONE SPECIFIED

OSHA PEL:100 PPM

ACGIH TLV:100 PPM 9091

Ingred Name:AROMATIC HYDROCARBONS

Fractio

n by Wt: 25% %
Other REC Limits:NONE SPECIFIED
OSHA PEL:100 PPM
ACGIH TLV:100 PPM 9091

Ingred Name:OLEFINS
Fraction by Wt: 1-2% %
Other REC Limits:NONE SPECIFIED

Ingred Name:NAPHTHALENE (SARA III)
CAS:91-20-3
RTECS #:QJ0525000
Fraction by Wt: 0-3% %
Other REC Limits:NONE SPECIFIED
OSHA PEL:10 PPM/15 STEL
ACGIH TLV:10 PPM/15 STEL; 9192
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

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===== Hazards Identification =====
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LD50 LC50 Mixture:NOT SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:HIGHLY CORROSIVE, AVOID SKIN CONTACT
MAY BE ABSORBED THROUGH THE SKIN IN TOXIC AMOUNTS. EYE, MUCOUS
MEMBRANE AND RESPIRATORY IRRITANT. CENTRAL NERVOUS SYTEM
DEPRESSANT. POLYNEUROPATHY, NEUROLOGIC DYSFUNCTION EFFECTS
REPORTED.
Explanation of Carcinogenicity:NAPHTHALENE IS UNDER INVESTIGATION WITH
THE ORGANIZATIONS LISTED PER MANUFACTURER.
Effects of Overexposure:EYE IRRITATION, SKIN IRRITATION/BURNS, MUCOUS
MEMBRANE IRRITATION, RESPIRATORY IRRITATION, GIDDINESS, DIZZINESS,
HEADACHES, NAUSEA, VOMITING.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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===== First Aid Measures =====
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First Aid:SKIN: FLUSH AFFECTED AREA WITH SOAP AND WATER. REMOVE
CONTAMINATED CLOTHING. MEDICAL ATTENTION MAY BE NECESSARY. EYES:
IMMEDIATELY FLUSH WITH WATER FOR 20 MINUTE

S, LIFTING EYELIDS. SEEK IMMEDIATE MEDICAL ATTENTION. INHALATION: MOVE EXPOSED PERSON TO FRESH AIR. ADMINISTER ARTIFICIAL RESPIRATION AND OXYGEN IF NECESSARY. SEEK MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. RINSE MOUTH. GET MD.

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

Flash Point:100F MIN
Autoignition Temp:Autoignition Temp Text:240C
Lower Limits:4.2 %
Upper Limits:8.6 %
Extinguishing Media:ALCOHOL FOAM, CARBON DIOXIDE, DRY CHEMICAL EXTINGUISHER. WATER FOG TO COOL EXPOSED CONTAINERS.
Fire Fighting Procedures:USE FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS. STOP FLOW OF MATERIAL BEFORE EXTINGUISHING FIRE. DIKE TO PREVENT RUNOFF.
Unusual Fire/Explosion Hazard:VAPORS MAY SPREAD TO REMOTE IGNITION SOURCES.

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

Spill Release Procedures:RESTRICT ACCESS TO AREA. DIKE WITH ABSORBENT MATERIALS TO PREVENT ENTRY INTO SEWERS OR WATERWAYS. REMOVE IGNITION SOURCES. USE FULL PROTECTIVE EQUIPMENT FOR CLEAN-UP. MATERIAL FLOATS ON WATER. IF NECESSARY, NOTIFY APPROPRIATE GOVERNMENT AGENCIES.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:DO NOT USE OR STORE NEAR FLAME, SPARKS, HOT SURFACES OR INCOMPATIBLES. USE AND STORE ONLY IN COOL, WELL-VENTILATED AREA. KEEP CONTAINER CLOSED.
Other Precautions:TRANSPORT ACCORDING TO STATE, FEDERAL AND INTERNATIONAL REGULATIONS. SMOKING SHOULD BE PROHIBITED WHEN TRANSFERRING PRODUCT.

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

Respiratory Protection:NOT NORMALLY REQUIRED. APPROVED ORGANIC VAPOR RESPIRATOR OR SCBA FOR SPILL EMERGENCIES.
Ventilation:MAINTAIN LOW VAPOR CONCENTRATION, MATERIAL HAS LOW VOLATILITY. MECHANICAL VENTILATION SHOULD BE SPARK PROOF.
Protective Gloves:NEOPRENE, NITRILE RUBBER
Eye Protection:SPLA

SH-PROOF CHEMICAL SAFETY GOGGLES

Other Protective Equipment: IMPERVIOUS CLOTHING TO MINIMIZE SKIN CONTACT.

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

Supplemental Safety and Health

DO NOT WEAR OIL CONTAMINATED CLOTHING. HIGHLY VOLATILE, FLAMMABLE MATERIAL. NAPHTHALENE IS LISTED IN NTP ANNUAL REPORT.

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

HCC:F4

Boiling Pt: B.P. Text: 290F - 510F

Melt/Free

ze Pt: M.P/F.P Text: 80%

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

Stability Indicator/Materials to Avoid: YES

STRONG OXIDIZING AGENTS SUCH AS LIQUID OXYGEN, CHLORINE

Stability Condition to Avoid: HEAT, SPARKS, OPEN FLAMES

Hazardous Decomposition Products: CARBON MONOXIDE

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

Waste Disposal Methods: USE ABSORBENT MATERIAL TO CLEAN UP SPILL.

DISPOSE OF SPILL AND CONTAMINATED SOIL IN APPROVED WASTE DISPOSAL

SITE. COMPLY WITH ALL APPROPRIATE FEDERAL, STATE AND LOCAL REGULATIONS.

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