

G.J. CHEMICAL CO., INC -- LIGROINE, (SEE SUPPL.) -- 6810-00-051-5872

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

Product ID:LIGROINE, (SEE SUPPL.)

MSDS Date:11/20/1998

FSC:6810

NIIN:00-051-5872

Status Code:A

MSDS Number: CLGYX

=== Responsible Party ===

Company Name:G.J. CHEMICAL CO., INC

Address:370-376 ADAMS STREET

City:NEWARK

State:NJ

ZIP:07114

Country:US

Info Phone Num:973-589-1450

Emergency Phone Num:973-589-1450

Resp. Party Other MSDS Num.:#PX0430

CAGE:UO475

=== C

Contractor Identification ===

Company Name:ALLIANCE CHEMICAL INC

Address:3 OAKMOOR

Box:79

City:ROUND ROCK

State:TX

ZIP:78680

Country:US

Phone:512-365-6838

Contract Num:SP0450-01-M-ZB86

CAGE:1LT50

Company Name:G.J. CHEMICAL CO., INC

Address:370-376 ADAMS STREET

Box:City:NEWARK

State:NJ

ZIP:07114

Country:US

Phone:973-589-1450

CAGE:UO475

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

Ingred Name:2-METHYLPENTANE

CAS:107-83-5

RTECS #:SA2985000

Minumum % Wt:1.

Maxumum % Wt:5.

ngred Name:PENTANE  
CAS:109-66-0  
RTECS #:RZ9450000  
Minumum % Wt:60.  
Maxumum % Wt:80.  
OSHA PEL:1800 MG/M3;1000 PPM  
OSHA STEL:2250 MG/M3  
ACGIH TLV:1770 MG/M3;600 PPM  
ACGIH STEL:2210 MG/M3;750 PPM

Ingred Name:CYCLOPENTANE  
CAS:287-92-3  
RTECS #:GY2390000  
Minumum % Wt:1.  
Maxumum % Wt:5.  
OSHA PEL:1720 MG/M3; 600PPM  
ACGIH TLV:1720 MG/M3;600 PPM

Ingred Name:BUTANE, 2,2-DIMETHYL-  
CAS:75-83-2  
RTECS #:EJ9300000  
Minumum % Wt:1.  
Maxumum % Wt:5.

Ingred Name:2,3-DIMETHYLBUTANE  
CAS:79-29-8  
RTECS #:EJ9350000  
Mi  
numum % Wt:1.  
Maxumum % Wt:5.

Ingred Name:PENTANE, 3-METHYL-  
CAS:96-14-0  
Minumum % Wt:5.  
Maxumum % Wt:10.

Ingred Name:2-METHYLBUTANE  
CAS:78-78-4  
RTECS #:EK4430000  
Minumum % Wt:1.  
Maxumum % Wt:5.

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

Routes of Entry: Inhalation:YES Skin:UNKNOWN Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:OVERVIEW: EXTREMELY FLAMMABLE LIQUID  
AND VAPOR. HARMFUL OR FATAL IF SWALLOWED. VA

POR HARMFUL. IRRITATING

TO SKIN, EYES AND MUCOUS MEMBRANES. MAY CAUSE DAMAGE TO LUNGS, THORAX, CENTRAL NERVOUS SYSTEM, AND KIDNEYS.

Explanation of Carcinogenicity:THE MATERIAL IS NOT LISTED (IARC, NTP, OSHA) AS CANCER CAUSING AGENT.

Effects of Overexposure:HARMFUL IF INHALED OR SWALLOWED. IRRITATING ON CONTACT WITH SKIN, EYES OR MUCOUS MEMBRANES. VAPOR IRRITATING TO EYES AND RESPIRATORY PASSAGES. MAY CAUSE KIDNEY DAMAGE, NAUSEA, DIZZINESS, CENTRAL NERVOUS SYSTEM DEPRESSION, RESPIRATORY AND CARDIAC EFFECTS.

Medical Cond Aggravated by Exposure:HEART, KIDNEY, AND RESPIRATORY CONDITIONS.

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

First Aid:GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE. SKIN: IMMEDIATELY FLUSH THOROUGHLY WITH LARGE AMOUNTS OF WATER. EYES: IMMEDIATELY FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES. INHALATION: REMOVE TO FRESH AIR; GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED.

INGESTION: CALL A PHYSICIAN IMMEDIATELY.

ONLY INDUCE VOMITING AT THE INSTRUCTIONS OF A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point:=-45.4C, -50.F

Lower Limits:1.10

Upper Limits:5.90

Extinguishing Media:"ALCOHOL" FOAM, DRY CHEMICAL, CO2.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:THERMAL DECOMPOSITION PRODUCES TOXIC

FUMES. VAPOR CAN TRAVEL DISTANCES TO IGNITION SOURCE AND FLASH BACK.

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

Spill Release Procedures:EVACUATE THE AREA OF ALL UNNECESSARY PERSONNEL. WEAR SUITABLE PROTECTIVE EQUIPMENT. ELIMINATE ANY IGNITION SOURCES UNTIL THE AREA IS DETERMINED TO BE FREE FROM EXPLOSION OR FIRE HAZARDS. CONTAIN THE RELEASE AND ELIMINATE ITS SOURCE. TAKE UP AND CONTAINERIZE FOR PROPER DISPOSAL. COMPLY WITH FED

ERAL, STATE, AND LOCAL REGULATIONS ON REPORTABLE QUANTITY AND  
OTHER (CONTD. SEE "TOXICOLOGICAL").

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

Handling and Storage Precautions:KEEP CONTAINER CLOSED. STORE IN A  
COOL, DRY AREA AWAY FROM IGNITION SOURCES AND OXIDIZERS. DO NOT  
BREATHE VAPOR. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.  
ELECTRICALLY GROUND ALL EQUIPMENT WHEN HAN DLING THIS PRODUCT.

Other Precautions:MATERIAL SHOULD BE HANDLED OR TRANSFERRED I  
N AN

APPROVED FUME HOOD OR WITH ADEQUATE VENTILATION.

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

Respiratory Protection:IF WORKPLACE EXPOSURE LIMIT(S) OF PRODUCT OR  
COMPONENT IS EXCEEDED, A NIOSH/MSHA APPROVED AIR SUPPLIED  
RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL.  
OSHA REGULATIONS PERMIT OTHER N IOSH/MSHA RESPIRATORS (NEGATIVE  
PRESSURE TYPE) UNDER SPECIFIED CONDITIONS. ENGINEERING AND/OR  
ADMINISTRATIVE CONTROLS SHOULD BE  
IMPLEMENTED TO REDUCE EXPOSURE.

Ventilation:PRODUCT SHOULD BE HANDLED OR TRANSFERRED IN AN APPROVED  
FUME HOOD OR WITH ADEQUATE VENTILATION.

Protective Gloves:WEAR NEOPRENE OR EQUIVALENT PROTECTIVE GLOVES TO  
PREVENT SKIN CONTACT.

Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS SHOULD BE WORN AT ALL  
TIMES.

Other Protective Equipment:EYE WASH AND SAFETY EQUIPMENT SHOULD BE  
READILY AVAILABLE. IMPERVIOUS PROTECTIVE CLOTHING SHOULD BE WORN TO  
PREVENT SKIN CONTACT.

Work Hygienic Pra

ctices:WASH THOROUGHLY AFTER HANDLING. DO NOT TAKE  
INTERNALLY.

Supplemental Safety and Health

CHEMICAL NAME: PETROLEUM ETHER, B.R. 30-60C.

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

HCC:F2

Boiling Pt:>37.C, 98.6F

B.P. Text:37C TO 56C

Vapor Pres:13.8 MM HG @38C

Vapor Density:2.5(AIR=1)

Spec Gravity:0.6 (H2O=1)

Evaporation Rate & Reference:>1 (BUAC = 1)

Solubility in Water:INSOLUBLE.

Appearance and Odor:COLORLESS LIQUID, GASOLINE-LIKE ODOR.

Percent Volatiles by

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

Stability Indicator/Materials to Avoid:YES  
OXIDIZERS.  
Stability Condition to Avoid:HEAT; CONTACT WITH IGNITION SOURCES.  
Hazardous Decomposition Products:COX, HYDROCARBONS.  
Conditions to Avoid Polymerization:DOES NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:NONE ESTABLISHED. (CONTD. FROM "SPILL  
RELEASE") REGULATORY DATA. E.M. SCIENCE RECOMMENDS SPILL-X  
  
ABSORBENT AGENTS FOR VARIOUS TYPES OF SPILLS. ADDITIONAL  
INFORMATION ON THE SPILL-X PRODUCTS CAN BE PRO VIDED THROUGH THE EM  
SCIENCE TECHNICAL SERVICE DEPARTMENT 609-354-9200. THE FOLLOWING EM  
SCIENCE SPILL-X ABSORBENT IS RECOMMENDED FOR THIS PRODUCT: SX0863,  
SOLVENT SPILL TREATMENT KIT.

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

Waste Disposal Methods:EPA WASTE NUMBERS: D001. TREATMENT:  
INCINERATION, FUELS BLENDING OR RECYCLE. CONTACT YOUR LOC  
AL  
PERMITTED WASTE DISPOSAL SITE (TSD) FOR PERMISSIBLE TREATMENT  
SITES. ALWAYS CONTACT A PERMITTED WASTE DI SPOSER (TSD) TO ASSURE  
COMPLIANCE WITH ALL CURRENT LOCAL, STATE, AND FEDERAL REGULATIONS.

===== MSDS Transport Information =====

Transport Information:DOT PROPER SHIPPING NAME: PETROLEUM SPIRIT.

===== Regulatory Information =====

Federal Regulatory Information:TSCA INVENTORY: THIS PRODUCT IS A  
"MIXTURE". TH  
E CAS NUMBERS OF ALL COMPONENTS ARE LISTED ON THE TSCA  
INVENTORY.

===== Other Information =====

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