View NSN Online: https://aerobasegroup.com/nsn/6810-00-051-5872

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 === 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

Ingred Name:2-METHYLPENTANE

CAS:107-83-5 RTECS #:SA2985000 Minumum % Wt:1. Maxumum % Wt:5.

Ingred 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 Minumum % 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.

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. VAPOR 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 KI DNEY DAMAGE, NAUSEA, DIZZINESS, CENTRAL NER VOUS SYSTEM DEPRESSION, RESPIRATORY AND CARDIAC EFFECTS. Medical Cond Aggravated by Exposure: HEART, KIDNEY, AND RESPIRATORY CONDITIONS. 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 FRE SH 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 MOU TH TO AN UNCONSCIOUS PERSON. 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.

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 R ELEASE AND ELIMINATE ITS SOURCE. TAKE UP AND CONTAINERIZE FOR PROPER DISPOSAL. COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS ON REPORTABLE QUANTITY AND OTHER (CONTD. SEE "TOXICOLOGICAL").

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 PRODU CT.

Other Precautions: MATERIAL SHOULD BE HANDLED OR TRANSFERRED IN AN APPROVED FUME HOOD OR WITH ADEQUATE VENTILATION.

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 COND

ITIONS. 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 CLOTH

ING SHOULD BE WORN TO

PREVENT SKIN CONTACT.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING. DO NOT TAKE INTERNALLY.

Supplemental Safety and Health

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

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 (H20=1) Evaporation Rate & amp; Reference:>1 (BUAC = 1) Solubility in Water:INSOLUBLE. Appearance an d Odor:COLORLESS LIQUID, GASOLINE-LIKE ODOR. Percent Volatiles by Volume:100

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:NONE ESTABLISHED. (CONTD. FROM "SPI LL

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.

Waste Disposal Methods: EPA WASTE NUMBERS: D001. TREATME NT:

INCINERATION, FUELS BLENDING OR RECYCLE. CONTACT YOUR LOCAL 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.

Transport Information: DOT PROPER SHIPPING NAME: PETROLEUM SPIRIT.

Federal Regulator

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

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all li ability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.