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**MATERIAL SAFETY DATA SHEET**  
HEALTH-1 FLAMMABILITY-2 REACTIVITY-0 PERSONAL PROTECTION-

IDENTITY: 1452 AWAY - DATED: 03-01-99

**SECTION I - MANUFACTURED FOR:**

PRO CHEM, INC. - 1475 BLUEGRASS LAKES PARKWAY - ALPHARETTA, GA. 30004 - EMERGENCY AND INFORMATION#: (800) 241-8180

**SECTION II - HAZARDOUS INGREDIENTS**

**CHEMICAL NAME:** ISOPROPYL ALCOHOL

OSHA PEL: 400 PPM      ACGIH TLV: 400 PPM      % RAW MTL: 60-80      OTHER LIMITS: N A.      CAS#: 67-63-0

**CHEMICAL NAME:** LIQUIFIED PETROLEUM GAS

OSHA PEL: 1000PPM      ACGIH TLV: 1000 PPM      % RAW MTL: 20-40      OTHER LIMITS: N A.      CAS#: 68476-85-7.

**SECTION III - PHYSICAL DATA**

**BOILING POINT:** ~172°F

**APPEARANCE:** SLIGHTLY YELLOW LIQUID. MILD ALCOHOL ODOR.

**SOLUBILITY:** APPRECIABLE.

**SPECIFIC GRAVITY (H20=1):** .0.816

**VAPOR PRESSURE (MMHG):** 65

**MELTING POINT:** N A.

**VAPOR DENSITY (AIR=1):**>1.

**EVAPORATION RATE():**

**SECTION IV - FIRE AND EXPLOSION DATA**

**FLASH POINT:** 52 DEG. F.

**METHOD USED:** TOC.

**FLAMMABILITY LIMIT:** EXTREMELY FLAMMABLE SPRAY

**LEL:** N A.      **UEL:** N A.

**EXTINGUISHING MEDIA:** FOAM, DRY CHEMICAL, CARBON DIOXIDE.

**SPECIAL FIRE FIGHTING PROCEDURES:** WEAR SELF CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. COOL FIRE EXPOSED CONTAINERS TO PREVENT RUPTURING.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** EXPOSURE TO TEMPERATURES ABOVE 120°F MAY CAUSE BURSTING.

**SECTION V - REACTIVITY DATA**

**STABILITY:** STABLE.

**CONDITIONS TO AVOID:** DO NOT EXPOSE TO TEMPERATURES ABOVE 120 DEG. F.

**INCOMPATIBILITY (MATERIALS TO AVOID):** STRONG OXIDIZING AGENTS.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD CARBON MONOXIDE AND OR CARBON DIOXIDE.

**HAZARDOUS POLYMERIZATION:** NO.

**CONDITIONS TO AVOID:** NONE.

**SECTION VI - HEALTH HAZARD DATA**

**ROUTE(S) OF ENTRY:**    INHALATION?    SKIN? Y.    INGESTION?    EYES?

**HEALTH HAZARDS (ACUTE AND CHRONIC):** EYES-MAY CAUSE IRRITATION OR TEMPORARY REDNESS OR TEARING, BUT DOES NOT INJURE EYE TISSUE. SKIN-MAY CAUSE IRRITATION IN SOME SENSITIVE INDIVIDUALS, ESPECIALLY ON AREAS OCCLUDED FROM AIR (INSIDE GLOVES, UNDER WATCHBANDS, ETC...) INHALATION-INHALATION OF MIST CAN CAUSE IRRITATION OF NASAL AND RESPIRATORY PASSAGES. ABUSIVE OR EXCESSIVE INHALATION MAY CAUSE IRRITATION TO THE UPPER RESPIRATORY TRACT, DIZZINESS, NAUSEA AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS. INGESTION-CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA. ASPIRATION OF MATERIAL INTO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS.

**CARCINOGENICITY:** N.    NTP? N.    IARC MONOGRAPHS? N.    OSHA REGULATED? N.

**SIGNS AND SYMPTOMS OF EXPOSURE:**

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

**EMERGENCY AND FIRST AID PROCEDURES:** EYES-FLUSH WITH LARGE AMOUNTS OF COOL RUNNING WATER FOR AT LEAST 15 MINUTES WHILE HOLDING LIDS OPEN. IF IRRITATION PERSISTS GET MEDICAL ATTENTION IMMEDIATELY. SKIN - WASH AFFECTED AREA WITH SOAP AND WATER. IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION. INHALATION- REMOVE TO FRESH AIR. SEEK MEDICAL ATTENTION IMMEDIATELY. IF BREATHING STOPS GIVE ARTIFICIAL RESPIRATION. INGESTION- DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IMMEDIATELY.

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** ALLOW PROPELLANT TO EVAPORATE. MAINTAIN LOCAL EXHAUST AND ADEQUATE VENTILATION. NO SMOKING. KEEP SPARKS, HEAT SOURCES AND OPEN FLAME FAR AWAY FROM SPILL OR LEAK. COVER WITH AN ABSORBENT MATERIAL AND SWEEP UP. WASH AREA TO PREVENT SLIPPING. DISPOSE OF SOAKED ABSORBENT MATERIAL IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS.

**WASTE DISPOSAL METHOD:** AEROSOL CANS WHEN EMPTIED AND DEPRESSURIZED THROUGH NORMAL USE, POSE NO DISPOSAL HAZARD AND SHOULD BE RECYCLED. CONSULT FEDERAL, STATE AND LOCAL AUTHORITIES FOR APPROVED PROCEDURES.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** SEE ABOVE.

**OTHER PRECAUTIONS:**

**SECTION VIII - CONTROL MEASURES**

**RESPIRATORY PROTECTION (SPECIFY TYPE):** NONE NEEDED FOR PROPER USE IN ACCORDANCE WITH LABEL DIRECTIONS.

**VENTILATION:** LOCAL EXHAUST: Y.    MECHANICAL (GENERAL): Y.

**SPECIAL:** USE A NIOSH APPROVED CARTRIDGE RESPIRATOR OR GAS MASK. OTHER:

**PROTECTIVE GLOVES:** CHEMICAL RESISTANT

**EYE PROTECTION:** CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**

**WORK & HYGIENIC PRACTICES:** DO NOT EAT DRINK OR SMOKE IN THE WORK AREA. WASH HANDS BEFORE EATING.

**SECTION IX - SPECIAL PRECAUTIONS**

**RECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** DO NOT STORE AT TEMPERATURES ABOVE 120 DEG. F.

**OTHER PRECAUTIONS:**

**SECTION 313 SUPPLIER NOTIFICATION**

PLEASE READ AND FOLLOW THE DIRECTIONS ON THE PRODUCT LABEL. THEY ARE YOUR BEST GUIDE TO USING THIS PRODUCT IN THE MOST EFFECTIVE WAY AND THEY ALSO GIVE THE NECESSARY SAFETY PRECAUTIONS TO PROTECT YOUR HEALTH.