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MAGNA INDUSTRIES INC -- DISPOSABLE LPG FUEL CYLINDER -- 3439-00-542-0531

Product ID:DISPOSABLE LPG FUEL CYLINDER MSDS Date:01/01/1987 FSC:3439 NIIN:00-542-0531 Kit Part:Y MSDS Number: BJRFC === Responsible Party === **Company Name: MAGNA INDUSTRIES INC** Address:2201 WEST 110TH STREET City:CLEVELAND State:OH ZIP:44102 Country:US Info Phone Num:216-251-3334 FAX: 216-251-7778 Emergency Phone Num:216-251-3334 OR 800-969-3334 CAGE:0AJN5 === Contractor Identification === Company Name: BLACK AND CO Address:5351 W MINNESOTA ST Box:UNKNOW **City:INDIANAPOLIS** State:IN ZIP:46241 Country:US Phone:317-243-8676 Contract Num:SP0490-99-M-W907 CAGE:00WU8 **Company Name: MAGNA INDUSTRIES INC** Address:2201 WEST 110TH STREET Box:City:CLEVELAND State:OH ZIP:44102 Country:US Phone:216-251-3334 OR 800-969-3334 CAGE:0AJN5

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

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Ingred Name:PROPANE CAS:74-98-6 RTECS #:TX2275000 Fraction by Wt: 95-98% Other REC Limits:NONE SPECIFIED OSHA PEL:1000 PPM ACGIH TLV:ASPHYXIANT; 9192

Ingred Name:ETHANE CAS:74-84-0 RTECS #:KH3800000 Fraction by Wt: 3-5% Other REC Limits:NONE SPECIFIED ACGIH TLV:ASPHYXIANT 9192

Ingred Name:BUTANE CAS:106-97-8 RTECS #:EJ4200000 Fraction by Wt: 1-3% Other REC Limits:NONE SPECIFIED OSHA PEL:800 PPM ACGIH TLV:800 PPM; 9192

Ingred Name:ISOBUTANE CAS:75-28-5 RTECS #:TZ4300000 Fraction by Wt: 0.1-0.3% Other REC Limits:NONE SPECIFIED OSHA PEL:1000 PPM ACGIH TLV:1000 PPM

Ingred Name:METHANE CAS:74-82-8 RTECS #:PA1490000 Fraction by Wt: 0.1-0.2% Other REC Limits:NONE SPECIFIED ACGIH TLV:ASPHYXIANT; 9192

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:LIQUID MAY CAUSE "COLD BURNS" TO EYES & SKIN SIMILAR TO FROSTBITE. INHA LATION OF CONCENTRATIONS BELOW 10,000 PPM HAS LITTLE PHYSIOLOGICAL EFFECT. HIGHER CONCENTRATIONS MAY CAUSE DIZZINESS AND UNCONSCI OUSNESS DUE TO ASPHYXIATION. THERE ARE NO REPORTED EFFECTS FROM LONG-TERM LOW-LEVEL EXPOSURE.
Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.
Effects of Overexposure:ABOVE 100,000 PPM; SYMPTOMS OF EXPOSURE MAY INCLUDE DIZZINESS, STUPOR, AND UN
CONSCIOUSNESS. ACGIH CLASSIFIES PROPANE AS AN ASPHYXIANT. THERE IS NO RECOMMENDED TLV.

Medical Cond Aggravated by Exposure:NONE KNOWN

First Aid:EYES: FOR LIQUID CONTACT, FLUSH EYES WITH LUKEWARM WATER FOR 15 MINUTES. GET MEDICAL CARE. SKIN: FOR BURNS FROM LIQUID CONTACT, IMMEDIATELY PLACE AFFECTED AREA IN LUKEWARM WATER AND KEEP AT THIS TEMPE RATURE UNTIL CIRCULATION RETURNS OR USEBODYHEAT TO WARM FROSTBIT

E AREAS. GET MEDICAL CARE. INHALATION: REMOVE PERSON TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL CARE.

Flash Point Method:CC Flash Point:=-102.8C, -153.F Autoignition Temp:=432.2C, 810.F Lower Limits:2.4 Upper Limits:9.5 Extinguishing Media:USE CARBON DIOXIDE OR DRY CHEMICAL. DO NOT EXTINGUISH FIRE UNLESS THE SOURCE OF GAS IS TURNED OFF. Fire Fighting Procedures:WEAR FIRE FIGHTING PROT ECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. EVACUATE AREA. Unusual Fire/Explosion Hazard:METAL CYLINDERS REQUIRE COOLING WITH WATER TO PREVENT FLAME IMPINGEMENT AND THE WEAKENING OF METAL.

Spill Release Procedures:STOP LEAK IF POSSIBLE. ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA. EVACUATE ALL PERSONNEL. PROPANE IS HEAVIER THAN A IR AND CAN SETTLE INTO LOW AREAS. REMAIN UPWIND OF LEAK. PREVENT VAPOR FROM E NTERING INTO SEWER, BASEMENTS OR CONFINED AREAS. Neutralizing Agent:NOT APPLICABLE. Handling and Storage Precautions: CYLINDERS SHOULD NOT BE DROPPED. Other Precautions: STORAGE TEMPERATURE SHOULD BE KEPT BELOW 125F. CYLINDERS MUST NOT BE RECHARGED. **Respiratory Protection** :SELF-CONTAINED BREATHING APPARATUS WHERE THE CONCENTRATION OF PROPANE WOULD REDUCE OXYGEN LEVEL BELOW 18% IN INHALED AIR. Ventilation: USE EXPLOSION PROOF VENTILATION EQUIPMENT. Protective Gloves: INSULATED LEATHER GLOVES AS REQUIRED. Eye Protection: SAFETY GLASSES, GOGGLES OR FACE SHIELD Other Protective Equipment:NONE NORMALLY REQUIRED. Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. USE PROPER CARE WHEN HANDLING AND STORING CYLINDERS. Supplemental Safety and Health REFER TO CGA BULLETIN SB-2 "OXYGEN DEFICIENT ATMOSPHERES". HCC:G2 Boiling Pt:=-42.2C, -44.F Melt/Freeze Pt:=-187.8C, -306.F Vapor Pres:1013 Vapor Density:1.52 Spec Gravity:0.51 Evaporation Rate & amp; Reference: RAPID/GAS AT NORMAL COND. Solubility in Water:MODERATE Appearance and Odor: COLORLESS LIQUID. ODOR IS SIMILAR TO BOILING CABBAGE (ETHYL MERCAPTAIN ADDED) Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES

KEEP SEPARATE FROM STRONG OXIDIZING AGENTS. GAS EXPLODES SPONTANEOUSLY WHEN MIXED WITH CHLORINE DIOXIDE.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Hazardous Decomposition Products:CARBON MONOXIDE

Waste Disposal Methods: MOVE LEAKY CYLINDER TO OUTDOORS OR VENTILATED

HOOD. ALLOW GAS TO DISCHARGE AT MODERATE RATE. DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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