

K-G PACKAGING

8001 KEELE STREET P.O. BOX 89
 CONCORD, ONTARIO CANADA L4K 1B2
 PRODUCT INFORMATION: (905) 669-9855

SECTION 1: PRODUCT IDENTIFICATION AND USE

MANUFACTURER..... **K-G PACKAGING**
 (DIVISION OF CCL INDUSTRIES INC.)
 8001 KEELE STREET P.O. BOX 89
 CONCORD, ONTARIO CANADA L4K 1B2
 PRODUCT INFORMATION: (905) 669-9855
 CANUTEC EMERGENCY NUMBER: (613) 996-6666 (24Hr)

PRODUCT NAME..... 3034-0001 SAFETY HORN, AIRCHIME REPLACEMENT CANISTER PART # 10939
CHEMICAL FAMILY..... HALOGENATED HYDROCARBON
TRADE NAMES & SYNONYMS..... 134a, DYMEL (DUPONT), NORFLURANE
PRODUCT USES..... HAND HELD SAFETY HORN CONTAINING LIQUEFIED, COMPRESSED GAS.
CHEMICAL FORMULA..... CH₂FCF₃
MOLECULAR WEIGHT..... NOT APPLICABLE
T.D.G. CLASSIFICATION..... *SHIPPING NAME: AEROSOL, NON-FLAMMABLE, UN: 1950 CLASS 2.2, PACKING GROUP: X, TC-SU 5016 "NRC" (NON REUSABLE CONTAINER)*

WHMIS CLASSIFICATION..... A
CNFC SECTION 3.3.5..... LEVEL 1
NFPA CODE 30B..... LEVEL 1
HMIS RATING FLAMMABILITY..... 0 MINIMAL HAZARD
HMIS RATING HEALTH..... 1 SLIGHT HAZARD
HMIS RATING REACTIVITY..... 1 SLIGHT HAZARD

SECTION 2: HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	T.L.V.	C.A.S.No.	LD/50, ROUTE, SPECIES	LD/50, ROUTE, SPECIES
1,1,1,2-TETRAFLUOROETHANE	100	1000	811-97-2	DATA NOT AVAILABLE	567,000 PPM (4HR) INHALE-RAT

SECTION 3: PHYSICAL DATA

PHYSICAL STATE AEROSOL	ODOR THRESHOLD NOT AVAILABLE
BOILING POINT -26.2°C (15.2°F) @ 736mm Hg	SPECIFIC GRAVITY (LIQUID) 1.21 G/CC @ 25°C
VAPOR PRESSURE (AEROSOL) 65-75 PSIG @ 20°C (68°F)	AEROSOL VOLATILE (BY WEIGHT) ... 100%
VAPOR DENSITY (AIR=1) 3.1 BY WEIGHT	EVAPORATION RATE NOT AVAILABLE
SOLUBILITY IN WATER 0.15 WT % @ 25°C (77°F)	PH NOT APPLICABLE
APPEARANCE COLORLESS	FREEZING POINT -117°C (-178.6°F)
ODOR SLIGHT ETHEREAL	COEFFICIENT OF WATER/OIL DIST... NOT AVAILABLE

SECTION 4: FIRE & EXPLOSION DATA

FLAMMABILITY: NON-FLAMMABLE. **IF YES, UNDER WHICH CONDITION:** excessive heat, sparks and open flame
MEAN OF EXTINCTION: CARBON DIOXIDE, DRY CHEMICAL, FOAM
SPECIAL PROCEDURE: Water from fogging nozzles may be used to cool closed containers to prevent built-up if exposed to extreme temperatures. Full protective equipment including self contained breathing apparatus should be worn in a fire involving this material.

FLASHBACK: NONE	FLASHPOINT(°C) TAG CLOSED UP: NIL	AUTO IGNITION TEMPERATURE: >743°C (1370°F)
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UPPER FLAMMABLE LIMIT: (% BY VOLUME) NOT APPLICABLE	LOWER FLAMMABLE LIMIT: (% BY VOLUME) NOT APPLICABLE	SENSITIVITY TO STATIC DISCHARGE: NOT APPLICABLE
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HAZARDOUS PRODUCTS OF DECOMPOSITION: HYDROCARBON FUMES AND SMOKE, CARBON DIOXIDE WHERE COMBUSTION IS INCOMPLETE. Contents may decompose on contact with flame or hot metal surface to form highly toxic and irritating Hydrogen Fluoride and Carbonyl Fluoride gases.

EXPLOSION DATA: Pressurized container can burst violently if punctured, crushed or heated.
AEROSOL FLAME PROJECTION CLASSIFIED AS: 0 CM

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SECTION 5: REACTIVITY DATA

CHEMICAL STABILITY: YES NO
IF YES UNDER WHICH CONDITION ? Product is stable under normal condition 25°C(77°F) and atmospheric pressure 14.7 psia.
INCOMPATIBILITY WITH OTHER SUBSTANCES: YES NO
IF YES, WHICH ONES ? Incompatible with strong oxidizing agents, Alkali or Alkali metals, powder Aluminum, Zinc, Beryllium.
REACTIVITY AND UNDER WHAT CONDITIONS ? Product is combustible at pressure as low as 5.5 psig at 177°C (351°F) in air at greater than 60% air by volume.
HAZARDOUS PRODUCTS OF DECOMPOSITION: Product decomposes in contact with flames or heated metal surfaces to form toxic and irritating Hydrogen Fluoride and Carbonyl Fluoride gases.

SECTION 6: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY:
SKIN CONTACT:..... MAY CAUSE IRRITATION. MAY CAUSE FROSTBITE
SKIN ABSORPTION:..... NO DATA AVAILABLE FOR THIS PRODUCT MIXTURE
EYE CONTACT:..... MAY CAUSE IRRITATION
INHALATION:..... PROPELLANT GAS IS A SIMPLE ASPHYXIANT
INGESTION: PRODUCT IS A GAS. THEREFORE, INDIGESTION IS NOT A LIKELY ROUTE OF EXPOSURE
EFFECT OF ACUTE EXPOSURE:..... DIZZINESS, NAUSEA. IRRITATION TO SKIN AND EYES. INHALATION OF HIGH CONCENTRATION OF VAPOR IS HARMFUL AND MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS OR DEATH.
EFFECT OF CHRONIC EXPOSURE:..... NONE KNOWN
EXPOSURE LIMITS:..... See SECTION 2 under T.L.V.
IRRITANCY OF PRODUCT:..... SKIN, EYE IRRITANT
SENSITIZING CAPABILITY OF PRODUCT: NOT KNOWN TO BE A SENSITIZER
CARCINOGENICITY OF PRODUCT:..... The ingredients of this product are not listed as carcinogens by NTP (National Toxicology program), Not regulated as Carcinogens by OSHA (Occupational Safety and Health Administration), and have not been evaluated by IARC (International Agency for Research on Cancer), nor by ACGIH (American Conference of Government Industrial Hygienists)
REPRODUCTIVE EFFECTS:..... No information is available and no adverse reproductive effects are anticipated
TERATOGENICITY..... No information is available and no adverse teratogenic effects are anticipated
MUTAGENICITY..... No information is available and no adverse mutagenic effects are anticipated
SYNERGISTIC MATERIALS..... NONE KNOWN

SECTION 7: PREVENTIVE MEASURES

<p>PERSONAL PROTECTIVE EQUIPMENT GLOVES: Not required under normal horn use conditions RESPIRATORS:.. Not required under normal horn use conditions EYE:..... Not required under normal horn use conditions FOOTWEAR:..... Not required under normal horn use conditions CLOTHING:..... Not required under normal horn use conditions OTHER (SPECIFY): Hearing protection should be used when sounding horn; Wear protected clothing and gloves if contact with liquefied gas expected.</p>	<p>ENGINEERING CONTROLS (SPECIFY): VENTILATION If use indoor, provide adequate ventilation LEAK AND SPILL PROCEDURE: Restrict access and ventilate the area. Vent to atmosphere until can empty. WASTE DISPOSAL: Do not puncture or incinerate containers. Dispose of in accordance with local, provincial and federal regulations.</p>
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HANDLING PROCEDURES AND EQUIPMENT: Contents under pressure. do not place in hot water or near radiators or other source of heat.
Wear hearing protection; hold at arm length; and do not tilt, shake or invert can when sounding horn.
STORAGE REQUIREMENT: Store in a cool, well ventilated, dry area, out of sun and away from sources of heat or flames.
SPECIAL SHIPPING INSTRUCTION: See section 1 under TDG classification

SECTION 8: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURE: In case of eye contact, flush immediately with plenty of water for at least 15 minutes. For skin, wash thoroughly with soap and water. If affected by inhalation of vapor or spray mist, remove to fresh air, keep victim calm. Call a physician. If swallowed; Do not induce vomiting, get medical attention immediately.

SECTION 9: ADDITIONAL INFORMATION

NOTICE FROM MANUFACTURER: The information on this material safety data sheet (MSDS) is provided by CCL INDUSTRIES INC. free of charge. While believed to be reliable, it is intended for use by skilled persons at their own risk. CCL Industries Inc. assumes no responsibility for events resulting or damages incurred from its use. The information on this MSDS relates only to specific material designated herein and does not relate to use in combination with any other material or in any process.

<p>PREPARED BY: Technical Group, CCL INDUSTRIES INC.</p>	<p>TEL.NO.: (905) 669-9855</p>	<p>DATED: January 1, 2002</p>
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