

ULTRA COOL  
327 BARTON ST.  
STONEY CREEK, ONTARIO L8E 2K8  
(905) 664-4667  
(905) 664-1739

**PRODUCT: ULTRACOOOL 12A REFRIGERANT w/DYE 6 & 9oz**

### SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER ..... ULTRA COOL  
327 BARTON ST.  
STONEY CREEK, ONTARIO  
CANADA  
L8E 2K8  
CANUTEC EMERGENCY #:1-613-996-6666(24HR)  
PRODUCT NAME..... ULTRACOOOL 12A REFRIGERANT w/DYE 6 & 9oz  
MOLECULAR WEIGHT..... NOT APPLICABLE.  
CHEMICAL FORMULA..... MIXTURE.  
TRADE NAMES & SYNONYMS  
RECOMMENDED PRODUCT USES..... REFRIGERANT.  
PRODUCT CODE(S) ..... UC-212, UC-214  
FORMULA/LAB BOOK #..... F 11-012A/33580.

### SECTION 02: HAZARDS IDENTIFICATION



HAZARD CLASSIFICATION..... Warning.  
SIGNAL WORD..... Warning.  
HAZARD STATEMENTS ..... H223 FLAMMABLE AEROSOL. H229 PRESSURIZED CONTAINER: MAY BURST IF HEATED. H302+H332 HARMFUL IF SWALLOWED OR INHALED.  
PRECAUTIONARY STATEMENTS..... P101 IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL AT HAND. P102 KEEP OUT OF REACH OF CHILDREN. P103 READ LABEL BEFORE USE.  
OTHER HAZARDS..... No additional information available.

### SECTION 03: COMPOSITION/INFORMATION INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
ISOBUTANE	75-28-5	30-60
PETROLEUM DISTILLATES	64741-65-7	10-30
PROPANE	74-98-6	30-60

### SECTION 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURE .... IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF AFFECTED BY INHALATION OF VAPOUR OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLOWED; DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION.

### SECTION 05: FIRE FIGHTING MEASURES

FLAMMABILITY..... EXTREMELY FLAMMABLE.  
IF YES, UNDER WHICH CONDITIONS?..... EXCESSIVE HEAT, SPARKS AND OPEN FLAME.  
SPECIAL PROCEDURES..... WATER FROM FOGGING NOZZLES MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT BUILD-UP IF EXPOSED TO EXTREME TEMPERATURES. FULL PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARATUS SHOULD BE WORN IN A FIRE INVOLVING THIS MATERIAL.  
EXPLOSION DATA  
SENSITIVITY TO STATIC DISCHARGE. NOT APPLICABLE.  
SENSITIVITY TO IMPACT..... NOT APPLICABLE.  
EXTINGUISHING MEDIA..... WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.

**PRODUCT: ULTRACOOOL 12A REFRIGERANT w/DYE 6 & 9oz****SECTION 05: FIRE FIGHTING MEASURES**

HAZARDOUS COMBUSTION PRODUCTS..... HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.

AEROSOL FLAME PROJECTION CLASSIFIED AS:..... >45cm.

FLASHBACK..... NONE.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

LEAK/SPILL..... REMOVE ALL SOURCES OF IGNITION. USE AN INERT ABSORBENT MATERIAL, AND NON-SPARKING TOOLS. VENTILATE AREA. PREVENT FROM ENTERING A WATERCOURSE.

**SECTION 07: HANDLING AND STORAGE**

STORAGE NEEDS..... KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES.

ENGINEERING CONTROLS..... VENTILATION - LOCAL (MECHANICAL IF USED INDOORS ON A CONTINUOUS BASIS).

HANDLING PROCEDURES AND EQUIPMENT ..... STORE IN A COOL, WELL VENTILATED AREA NOT TO EXCEED 50 DEG C.

SYNERGISTIC MATERIALS..... NONE KNOWN.

**SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
ISOBUTANE	1000 ppm					
PETROLEUM DISTILLATES	1200 mg/m3					
PROPANE	1000 ppm					
GLOVES/ TYPE.....	NONE REQUIRED FOR NORMAL APPLICATION OF AEROSOL PRODUCTS WHERE MINIMAL SKIN CONTACT IS EXPECTED.					
RESPIRATORY/TYPE.....	IF USED INDOORS ON A CONTINUOUS BASIS, USE OF A CARTRIDGE TYPE RESPIRATOR (NIOSH/MSHATC 23C OR EQUIVALENT) IS RECOMMENDED.					
EYE/TYPE.....	SAFETY GLASSES.					
FOOTWEAR/TYPE.....	NOT NORMALLY REQUIRED.					
OTHER/TYPE.....	NOT REQUIRED.					

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE..... AEROSOL.

APPEARANCE..... CLEAR PALE YELLOW LIQUID.

ODOR..... HYDROCARBON.

ODOR THRESHOLD..... NOT AVAILABLE.

pH..... NOT APPLICABLE.

FREEZING POINT: (°C)..... -20.

BOILING POINT (°C)(CONC)..... NOT AVAILABLE.

FLASH POINT (C), TAG CLOSED CUP..... -40F BASED ON PROPANE/ISOBUTANE.

EVAPORATION RATE..... LESS THAN 1.

n-BUTYL ACETATE = 1

UPPER FLAMMABLE LIMIT..... 9.6.

(% BY VOLUME)

LOWER FLAMMABLE LIMIT..... 2.6.

(% BY VOLUME)

VAPOUR PRESSURE(PSIG)-AEROSOL..... 65-70.

@ 20 C

VAPOUR DENSITY (AIR=1)..... GREATER THAN 1.

(BY WEIGHT)

SPECIFIC GRAVITY (LIQUID)..... 0.83-0.85.

SOLUBILITY IN WATER g/L (20°C)..... NEGLIGIBLE.

COEFFICIENT OF WATER/OIL DIST..... NOT AVAILABLE.

AEROSOL PERCENT VOLATILE..... 99-100.

(BY WEIGHT).

**PRODUCT: ULTRACOOOL 12A REFRIGERANT w/DYE 6 & 9oz****SECTION 10: STABILITY AND REACTIVITY**

HAZARDOUS PRODUCTS OF DECOMPOSITION..... HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.

CHEMICAL STABILITY:  
 YES..... UNDER NORMAL CONDITIONS.  
 NO, WHICH CONDITIONS?..... NOT APPLICABLE.

COMPATIBILITY WITH OTHER SUBSTANCES:  
 NO, WHICH ONES?..... STRONG OXIDIZING AGENTS.  
 REACTIVITY CONDITIONS?..... NOT APPLICABLE.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
ISOBUTANE	142,500 ppm (4h) INHAL - RAT	NOT APPLICABLE
PETROLEUM DISTILLATES	5.9 mg/l (4Hr) INHAL-RAT	7600 mg/kg ORAL-RAT
PROPANE	NOT AVAILABLE	>5000 mg/kg DERMAL-RABBITS
ROUTE OF ENTRY: INHALATION..... INGESTION..... EYE CONTACT..... SKIN CONTACT..... SKIN ABSORPTION..... EFFECTS OF ACUTE EXPOSURE..... EFFECTS OF CHRONIC EXPOSURE..... IRRITANCY OF MATERIAL..... CARCINOGENICITY OF MATERIAL.....	PROPELLANT IS A SIMPLE ASPHYXIANT. MAY CAUSE HEADACHE, NAUSEA, VOMITING, DIARRHEA AND WEAKNESS. CONTACT MAY CAUSE SLIGHT IRRITATION, REDNESS, WATERING. MAY CAUSE IRRITATION. NO DATA AVAILABLE FOR THIS PRODUCT MIXTURE. DIZZINESS, NAUSEA. IRRITATION TO EYES. MAY CAUSE DEFATTING DERMATITIS. SKIN/EYE IRRITANT. 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 GOVERNMENTAL INDUSTRIAL HYGIENISTS).	
MUTAGENICITY.....	NO INFORMATION IS AVAILABLE AND NO ADVERSE MUTAGENIC EFFECTS ARE ANTICIPATED.	
TERATOGENICITY.....	NO INFORMATION IS AVAILABLE AND NO ADVERSE TERATOGENIC EFFECTS ARE ANTICIPATED.	
REPRODUCTIVE EFFECTS.....	NO INFORMATION IS AVAILABLE AND NO ADVERSE REPRODUCTIVE EFFECTS ARE ANTICIPATED.	
SENSITIZING CAPABILITY OF MATERIAL.	UNKNOWN.	

**SECTION 12: ECOLOGICAL CONSIDERATIONS**

ENVIRONMENTAL..... ENVIRONMENTAL FATE: DUE TO ITS FLUID NATURE AND SPECIFIC GRAVITY, THIS PRODUCT WILL FLOAT OR SPREAD ACROSS WATER MAKING IT A NUISANCE CONTAMINANT. IT IS NOT THOUGHT TO BE TOXIC TO MARINE OR LAND ORGANISMS.

**SECTION 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL..... DO NOT PUNCTURE OR INCINERATE CONTAINERS, EVEN WHEN EMPTY. DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.

**SECTION 14: TRANSPORTATION INFORMATION**

T.D.G. CLASSIFICATION..... CONSUMER COMMODITY (AEROSOLS, UN1950, CLASS 2.1).  
 D.O.T. CLASSIFICATION..... CONSUMER COMMODITY, ORM-D.

**SECTION 15: REGULATORY INFORMATION**

CANADIAN REGULATIONS:  
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 WHMIS CLASSIFICATION..... A,B5.  
 CNFC SECTION 3.3.5..... LEVEL 3.  
 CEPA (Canadian Environmental Protection ... Act) ALL SUBSTANCES IN THIS PRODUCT ARE LISTED ON THE CANADIAN DOMESTIC SUBSTANCES LIST (DSL) OR ARE NOT REQUIRED TO BE LISTED.

**PRODUCT: ULTRACOOOL 12A REFRIGERANT w/DYE 6 & 9oz****SECTION 15: REGULATORY INFORMATION**

## U.S. REGULATIONS:

HMIS RATING HEALTH..... 1 SLIGHT HAZARD.  
 HMIS RATING FLAMMABILITY..... 4 SEVERE HAZARD.  
 HMIS RATING REACTIVITY..... 0 MINIMAL HAZARD.  
 HMIS RATING PERSONAL PROTECTION.. B.  
 NFPA CODE 30B..... LEVEL 3.  
 SARA 313 INFORMATION:..... THIS PRODUCT CONTAINS NO INGREDIENTS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372.

CALIFORNIA PROPOSITION 65:..... NAME: . N/A.  
 THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY WITH THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986: . WARNING: THIS PRODUCT DOES NOT INTENTIONALLY CONTAIN ANY CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.  
 . CAS #: . CHEMICAL NAME:

TSCA (Toxic Substances Control Act)..... . N/A.  
 ALL COMPONENT OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. ANY IMPURITIES PRESENT IN THIS PRODUCT ARE EXEMPT FROM LISTING.  
 VOC (w/w%)..... 99-100.

**SECTION 16: OTHER INFORMATION**

NOTICE FROM ULTRA COOL ..... THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET IS PROVIDED BY ULTRA COOL FREE OF CHARGE. WHILE BELIEVED TO BE RELIABLE, IT IS INTENDED FOR USE BY SKILLED PERSONS AT THEIR OWN RISK. ULTRA COOL ASSUMES NO RESPONSIBILITY FOR EVENTS RESULTING OR DAMAGES INCURRED FROM ITS USE. THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN AND DOES NOT RELATE TO USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PROCESS.

PREPARED BY..... Regulatory Affairs  
 PREPARATION DATE ..... DEC 02/2015