

CANADA COLORS & CHEMICALS LTD  
152 KENNEDY ROAD SOUTH  
BRAMPTON, ONTARIO  
CANADA L6W 3G4  
(905) 459-1232;

PRODUCT: ACETONE

CODE: 108001

**Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

MANUFACTURER/SUPPLIER..... CANADA COLORS & CHEMICALS LTD.  
152 KENNEDY ROAD SOUTH  
BRAMPTON, ONTARIO  
CANADA  
L6W 3G4  
PREPARED BY..... Regulatory Affairs  
PREPARATION DATE..... May08/12  
PRODUCT NAME..... ACETONE  
PRODUCT CODE..... 108001  
MATERIAL USE..... SOLVENT. REFER TO TECHNICAL LITERATURE.  
EMERGENCY PHONE NO..... (416)-444-2112.

**Section 02: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route, Species	LC/50 Route, Species
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\*\*\* AS PER % \*\*\*

ACETONE	60-100	SEE SECTION 11	67-64-1	SEE SECTION 11	SEE SECTION 11
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**Section 03: HAZARDS IDENTIFICATION**

ROUTE OF ENTRY:  
SKIN CONTACT..... PROLONGED OR REPEATED CONTACT CAN RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS (RASH).  
SKIN ABSORPTION..... N.AV.  
EYE CONTACT..... CONTACT WITH THE EYE MAY CAUSE MODERATE TO SEVERE IRRITATION.  
INHALATION..... HIGH CONCENTRATIONS MAY LEAD TO CENTRAL NERVOUS SYSTEM EFFECTS (DROWSINESS, DIZZINESS, NAUSEA, HEADACHES, PARALYSIS AND LOSS OF CONSCIOUSNESS AND EVEN DEATH). HIGH VAPOUR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT, AND LUNGS.  
INGESTION..... PRODUCT MAY BE HARMFUL OR FATAL IF SWALLOWED. MATERIAL IS A PULMONARY ASPIRATION HAZARD. MATERIAL CAN ENTER LUNGS AND CAUSE DAMAGE. INGESTION OF THIS PRODUCT MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS, WHICH MAY INCLUDE DIZZINESS, LOSS OF BALANCE AND COORDINATION, UNCONSCIOUSNESS, COMA AND EVEN DEATH.  
EFFECTS OF ACUTE EXPOSURE..... REFER TO ROUTE OF ENTRY.  
EFFECTS OF CHRONIC EXPOSURE..... REFER TO ROUTE OF ENTRY.  
PRE-EXISTING CONDITIONS..... THE FOLLOWING DISEASES OR DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT: SKIN, EYE, LUNG (ASTHMA-LIKE CONDITIONS).

**Section 04: FIRST AID MEASURES**

INSTRUCTIONS:..... INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULT, GIVE OXYGEN AND CONTINUE TO MONITOR. GET IMMEDIATE MEDICAL ATTENTION. SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER. REMOVE CLOTHING. GET MEDICAL ATTENTION IMMEDIATELY. WASH CLOTHING SEPARATELY BEFORE REUSE. EYES: FLUSH EYE WITH WATER FOR 15 MINUTES. HOLD EYELIDS APART TO ENSURE COMPLETE FLUSHING. GET MEDICAL ATTENTION. INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.

**Section 05: FIRE FIGHTING MEASURES**

FLAMMABILITY..... SEE FLASH POINT.  
IF YES, UNDER WHICH CONDITIONS?..... HEAT, SPARKS, OPEN FLAME.  
EXTINGUISHING MEDIA..... WATER SPRAY. ALCOHOL RESISTANT FOAM. CARBON DIOXIDE. DRY CHEMICAL.  
SPECIAL PROCEDURES..... USE WATER SPRAY. USE WATER SPRAY TO COOL FIRE EXPOSED TANKS AND CONTAINERS. ACETONE/WATER SOLUTIONS THAT CONTAIN MORE THAN 2.5% ACETONE HAVE FLASH POINTS. WHEN THE ACETONE CONCENTRATION IS GREATER THAN 8% (BY WEIGHT) IN A CLOSED CONTAINER, IT WOULD BE WITHIN THE FLAMMABLE RANGE AND CAUSE FIRE OR EXPLOSION IF A SOURCE OF IGNITION WERE INTRODUCED.  
FLASH POINT (C), METHOD..... -17. (METHOD - N.AV.).  
AUTO IGNITION TEMPERATURE..... 465 C.  
UPPER FLAMMABLE LIMIT (% BY VOL.).... 12.8.

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**Section 05: FIRE FIGHTING MEASURES**

LOWER FLAMMABLE LIMIT (% BY VOL.)... 2.5.  
 EXPLOSION DATA..... N.A.V.  
 EXPLOSIVE POWER..... N.A.V.  
 RATE OF BURNING..... N.A.V.  
 SENSITIVITY TO STATIC DISCHARGE..... YES.  
 SENSITIVITY TO IMPACT..... NO.  
 HAZARDOUS COMBUSTION PRODUCTS.. SEE HAZARDOUS DECOMPOSITION PRODUCTS. VAPOUR FORMS AN EXPLOSIVE MIXTURE WITH AIR BETWEEN UPPER AND LOWER FLAMMABLE LIMITS.

**Section 06: ACCIDENTAL RELEASE MEASURES**

LEAK/SPILL..... PREVENT IGNITION, STOP LEAK AND VENTILATE THE AREA. EVACUATE AND LIMIT ACCESS TO AREA. USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. USE AN EXPLOSION PROOF EQUIPMENT. CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. COLLECT FOR DISPOSAL. ADVISE APPROPRIATE ENVIRONMENTAL AGENCIES, IF REQUIRED. AFTER REMOVAL, FLUSH CONTAMINATED AREA THOROUGHLY WITH WATER. COLLECT INTO A SUITABLE CONTAINER FOR DISPOSAL. AVOID DIRECT DISCHARGE TO SEWERS AND SURFACE WATERS.

**Section 07: HANDLING AND STORAGE**

HANDLING PROCEDURES AND EQUIPMENT ..... AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPOURS. USE ONLY IN A WELL-VENTILATED AREA. WASH THOROUGHLY AFTER HANDLING. WEAR PROTECTIVE EQUIPMENT DURING HANDLING. EMPTY CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. ALL EQUIPMENT SHOULD BE GROUNDED. GROUND AND BOND CONTAINERS WHEN TRANSFERRING MATERIAL. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. EMPTY DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER. EMPTY CONTAINERS ARE HAZARDOUS, MAY CONTAIN FLAMMABLE/EXPLOSIVE DUSTS, LIQUID RESIDUE OR VAPOURS. FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED. KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. KEEP CONTAINERS CLOSED WHEN NOT IN USE.  
 STORAGE NEEDS..... KEEP AWAY FROM HEAT, SPARKS, AND FLAME. STORE IN A COOL DRY PLACE. KEEP CONTAINER CLOSED WHEN NOT IN USE.

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

GLOVES/ TYPE..... THE GLOVE(S) LISTED MAY PROVIDE PROTECTION AGAINST PERMEATION. GLOVES OF OTHER CHEMICALLY RESISTANT MATERIALS MAY NOT PROVIDE ADEQUATE PROTECTION. PROTECTIVE GLOVES ARE RECOMMENDED TO PROTECT AGAINST CONTACT WITH PRODUCT. NEOPRENE; NATURAL RUBBER.  
 RESPIRATORY/TYPE..... CONCENTRATION IN AIR DETERMINES THE LEVEL OF RESPIRATORY PROTECTION NEEDED. USE ONLY NIOSH CERTIFIED RESPIRATORY EQUIPMENT. HALF-MASK AIR PURIFYING RESPIRATOR WITH ORGANIC VAPOUR CARTRIDGES IS ACCEPTABLE FOR EXPOSURES TO TEN(10) TIMES THE EXPOSURE LIMIT. FULL-FACE AIR PURIFYING RESPIRATOR WITH ORGANIC VAPOUR CARTRIDGES IS ACCEPTABLE FOR EXPOSURE TO FIFTY (50) TIMES THE EXPOSURE LIMIT. EXPOSURE SHOULD NOT EXCEED THE CARTRIDGE LIMIT OF 1000 PPM. PROTECTION BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE-DEMAND FULL-FACE SUPPLIED AIR RESPIRATOR OR SCBA FOR EXPOSURES GREATER THAN FIFTY (50) TIMES THE EXPOSURE LIMIT. IF EXPOSURE IS ABOVE THE IDLH (IMMEDIATELY DANGEROUS TO LIFE AND HEALTH) OR THERE IS THE POSSIBILITY OF AN UNCONTROLLED RELEASE, OR EXPOSURE LEVELS ARE UNKNOWN, THEN USE A POSITIVE PRESSURE-DEMAND FULL-FACE AIR RESPIRATOR WITH ESCAPE BOTTLE OR SCBA. WEAR A NIOSH-APPROVED (OR EQUIVALENT) FULL-FACEPIECE AIRLINE RESPIRATOR IN THE POSITIVE PRESSURE MODE WITH EMERGENCY ESCAPE PROVISIONS.  
 EYE/TYPE..... SPLASH PROOF CHEMICAL GOGGLES OR FULL FACE SHIELD RECOMMENDED TO PROTECT AGAINST SPLASH OF PRODUCT.  
 FOOTWEAR/TYPE..... CHEMICAL RESISTANT.  
 CLOTHING/TYPE..... THE FOLLOWING MATERIALS ARE ACCEPTABLE FOR USE AS PROTECTIVE CLOTHING: NEOPRENE, NATURAL RUBBER. NOTE: REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.  
 OTHER/TYPE..... FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND A SAFETY SHOWER.  
 ENGINEERING CONTROLS..... USE WITH ADEQUATE VENTILATION. VENTILATION IS NORMALLY REQUIRED WHEN HANDLING OR USING THIS PRODUCT TO KEEP EXPOSURE TO AIRBORNE CONTAMINANTS BELOW THE EXPOSURE LIMIT. USE EXPLOSION-PROOF VENTILATION EQUIPMENT.

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**Section 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE..... COLOURLESS. LIQUID.  
 ODOUR..... SWEET PUNGENT.  
 ODOUR THRESHOLD..... 62 PPM.  
 VAPOUR PRESSURE (MMHG)..... 181 @ 20 C.  
 VAPOUR DENSITY (AIR=1)..... N.AV.  
 EVAPORATION RATE..... N.AV.  
 BOILING POINT..... 56 C (133 F).  
 PH..... 7.  
 VOLATILE..... 100%.  
 SPECIFIC GRAVITY (WATER=1)..... ~0.79.  
 SOLUBILITY IN WATER (% W/W)..... COMPLETE.  
 COEFFICIENT OF WATER/OIL DIST..... N.AV.

**Section 10: STABILITY AND REACTIVITY**

CHEMICAL STABILITY:  
 YES..... STABLE.  
 NO, WHICH CONDITIONS?..... AVOID HEAT, SPARKS AND OPEN FLAME.  
 COMPATABILITY WITH OTHER  
 SUBSTANCES:  
 YES  
 NO, WHICH ONES?..... ACETONE MAY FORM EXPLOSIVE MIXTURES WITH CHROMIC ANHYDRIDE,  
 CHROMYL ALCOHOL, HEXACHLOROMELANINE, HYDROGEN PEROXIDE,  
 PERMONOSULFURIC ACID, POTASSIUM TERTBUTOXIDE, AND THIOGLYCOL.  
 STRONG OXIDIZING AGENTS.  
 REACTIVITY CONDITIONS?..... AVOID HEAT, SPARKS AND OPEN FALME.  
 HAZARDOUS PRODUCTS OF ..... COMBUSTION MAY PRODUCE CARBON MONOXIDE, CARBON DIOXIDE AND OTHER  
 DECOMPOSITION ASPHYXIANTS.  
 HAZARDOUS POLYMERIZATION..... WILL NOT POLYMERIZE.

**Section 11: TOXICOLOGICAL INFORMATION**

EXPOSURE LIMIT OF MATERIAL..... LIMIT FOR THE PRODUCT: ACGIH STEL: 750 PPM; ACGIH TWA: 500 PPM; OSHA  
 TWA: 1000 PPM.  
 LC 50 OF MATERIAL, SPECIES & ROUTE.. RAT-4 HR: 32000 MG/M3. ACETONE: 32000 MG/M3 (RAT-4 HR).  
 LD 50 OF MATERIAL, SPECIES & ROUTE.. RABBIT-DERMAL: 20000 MG/KG; RAT-ORAL: 5.8 G/KG.  
 CARCINOGENICITY OF MATERIAL..... N.AV.  
 REPRODUCTIVE EFFECTS..... N.AV.  
 IRRITANCY OF MATERIAL..... SEE SECTION 03. DRAIZE SKIN SCORE: NO DATA (OUT OF 8.0).  
 SENSITIZING CAPABILITY OF MATERIAL. N.AV.

**Section 12: ECOLOGICAL CONSIDERATIONS**

ECOLOGICAL INFORMATION..... THIS PRODUCT IS NOT EXPECTED TO PERSIST IN THE ENVIRONMENT.

**Section 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL..... DISPOSE OF IN ACCORDANCE TO ALL LOCAL, PROVINCIAL AND FEDERAL  
 REGULATIONS. DO NOT FLUSH MATERIAL TO DRAIN OR STORM SEWER.

**Section 14: TRANSPORT INFORMATION**

UN NUMBER..... 1090.  
 TDG CLASSIFICATION..... 3.  
 PACKING GROUP..... II.  
 SPECIAL SHIPPING INSTRUCTIONS..... N.AP.

**Section 15: REGULATORY INFORMATION**

WHMIS CLASSIFICATION..... B2. D2B.  
 CPR COMPLIANCE..... THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD  
 CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION  
 REQUIRED BY THE CPR.

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**Section 16: OTHER INFORMATION**

ACGIH..... AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS.  
STEL..... SHORT-TERM EXPOSURE LIMIT.  
TWA..... TIME-WEIGHTED AVERAGE.  
OSHA..... OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.  
N.AV.=NOT AVAILABLE  
N.AP.=NOT APPLICABLE