









EMERGENCY NUMBERS:

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WHMIS	Protective Clothing	TDG Road/Rail
WHMIS CLASS: D-1A E D-2B		TDG Class: 6.1 PIN: UN1697 PG: II
  	   	

Section I. Product Identification and Uses

Product name	2-CHLOROACETOPHENONE	CI#	Not available.
Chemical formula	C8H7ClO	CAS#	532-27-4
Synonyms	CAF, CAP, Chloroacetophenone, alpha-Chloroacetophenone, Chloromethyl phenyl ketone, 2-Chloro-1-phenylethanone, Phenacyl chloride, Phenylchloromethylketone, AC-2189, 22586	Code	AC-2189
Supplier	Anachemia Canada. 255 Norman. Lachine (Montreal), Que H8R 1A3	Formula weight	154.6
		Supersedes	
Material uses	For laboratory use only.		

Section II. Ingredients

Name	CAS #	%	TLV
1) 2-CHLOROACETOPHENONE	532-27-4	99	Exposure limits: ACGIH TWA 0.05 ppm (0.32 mg/m3)

Toxicity values of the hazardous ingredients

2-CHLOROACETOPHENONE:

 ORAL (LD50): Acute: 50 mg/kg (Rat). 139 mg/kg (Mouse). 118 mg/kg (Rabbit). 158 mg/kg (Guine Pig)
 VAPOR (LCLo): Acute: 159 mg/m3 (Human) (20 min).

Section III. Physical Data

Physical state and appearance / Odor	Solid. (Tan powder. Pungent odor.)
pH (1% soln/water)	Not applicable.
Odor threshold	0.01613 ppm
Percent volatile	Not available.
Freezing point	54 to 56°C
Boiling point	244 to 245°C
Specific gravity	1.324 (Water = 1)
Vapor density	5.32 (Air = 1)
Vapor pressure	0.012 mm of Hg (@ 20°C)
Water/oil dist. coeff.	Not available.
Evaporation rate	Not available.
Solubility	Insoluble in cold water.

Section IV. Fire and Explosion Data

Flash point	CLOSED CUP: 118°C (NFPA)
Flammable limits	Not available.
Auto-ignition temperature	Not available.
Fire degradation products	Oxides of carbon (CO, CO ₂). Hydrogen chloride.
Fire extinguishing procedures	Use dry chemical powder or carbon dioxide. Wear adequate personal protection to prevent contact with material or its combustion products. Self contained breathing apparatus with a full facepiece operated in a pressure demand or other positive pressure mode.
Fire and Explosion Hazards	Flammable/explosive hydrogen gas may be formed upon contact of this product with metals in the presence of moisture. The sensitivity to static discharge is not available. The sensitivity to impact is not available. Emits toxic fumes under fire conditions.

Section V. Toxicological Properties

Routes of entry	Ingestion and inhalation. Eye contact. Skin contact. Skin absorption.
Effects of Acute Exposure	May be fatal by ingestion, inhalation, or by skin absorption. Corrosive. Target organs: eyes, skin, respiratory system, lungs. 15 mg/m ³ (2-CHLOROACETOPHENONE) is immediately dangerous to life or health.
Eye	Severe lachrymator. Causes conjunctivitis, severe burns and loss of vision. May cause permanent damage. IRRITATION: EYE-RABBIT 3 mg SEVERE.
Skin	Causes severe burns. Readily absorbed through skin. May cause sensitization by skin contact.
Inhalation	Highly toxic. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, laryngitis, dyspnea, conjunctivitis, headache, nausea, and vomiting. May cause delayed lung injury. May cause sensitization by inhalation.
Ingestion	Highly toxic. Burns in mouth, pharynx and gastrointestinal tract. See inhalation.

Effects of Chronic Overexposure

This substance is known to cause allergic reactions in certain individuals once they become sensitized after exposure to even small amounts over a period of time. Cross sensitization with 1,1-dichloroacetophenone. Carcinogenic effects: Not available. Mutagenic effects: Not available. Teratogenic effects: Not available. Toxicity of the product to the reproductive system: Not available. To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated.

Section VI. First Aid Measures**Eye contact**

IMMEDIATELY flush eyes with copious quantities of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Call a physician.

Skin contact

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reusing.

Inhalation

Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration or CPR if breathing has ceased. Seek immediate medical attention.

Ingestion

If conscious, wash out mouth with water. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.

Section VII. Reactivity Data**Stability**

Unstable. Moisture sensitive! Conditions to avoid: High temperatures, sparks, open flames and all other sources of ignition, contamination, moisture.

Hazardous decomp. products

Hydrogen chloride.

Incompatibility

Bases, amines, alcohols, oxidizing agents, moisture. Flammable/explosive hydrogen gas may be formed upon contact of this product with metals in the presence of moisture.

Reaction Products

May decompose on exposure to moist air or water. Evolves hydrochloric acid in presence of moisture. Hazardous polymerization will not occur.

Section VIII. Preventive Measures

2-CHLOROACETOPHENONE

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Protective Clothing in case of spill and leak Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

Spill and leak Evacuate the area. Sweep up and place in container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pick up is complete. DO NOT empty into drains. DO NOT touch spilled material. Stay upwind: Keep out of low areas.

Waste disposal According to all applicable regulations. Harmful to aquatic life at low concentrations. Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

Storage and Handling Store in a cool place away from heated areas, sparks, and flame. Store in a well ventilated area. Store away from incompatible materials. Do not add any other material to the container. Do not wash down the drain. Do not breathe dust. Keep away from direct sunlight or strong incandescent light. Keep container tightly closed and dry. Manipulate under an adequate fume hood. Avoid raising dust. Empty containers may contain a hazardous residue. Handle and open container with care. Minimize dust generation and exposure - use dust mask or appropriate protection. Take off immediately all contaminated clothing. This product must be manipulated by qualified personnel. Do not get in eyes, on skin, or on clothing. Wash well after use. In accordance with good storage and handling practices. Do not allow smoking and food consumption while handling. Protect from moisture. May react in presence of moisture. In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible.).

Section IX. Protective Measures

Protective clothing Face shield and splash goggles. Impervious gloves, apron, coveralls, and/or other resistant protective clothing. Sufficient to protect skin. A OSHA/MSHA jointly approved respirator is advised in the absence of proper environmental controls. If more than TLV, do not breathe vapor. Wear self-contained breathing apparatus. Do not wear contact lenses. Make eye bath and emergency shower available. Ensure that eyewash station and safety shower is proximal to the work-station location.

Engineering controls Use in a chemical fume hood to keep airborne levels below recommended exposure limits. Do not use in unventilated spaces.

Section X. Other Information

Special Precautions or comments Highly toxic! Corrosive! Sensitizer! Lachrymator. Do not breathe dust. Avoid all contact with the product. Avoid prolonged or repeated exposure. Use in a chemical fume hood. Keep away from heat, sparks and flame. To the best of our knowledge, the chemical, physical and toxicity of this substance has not been fully investigated. Moisture sensitive! Handle and open container with care. Container should be opened only by a technically qualified person.
RTECS NO: AM6300000 (2-Chloroacetophenone).



NFPA

Prepared by MSDS Department/Département de F.S..

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Telephone# (514) 489-5711

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