



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
301	Health Hazard 3 Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification				Page Number: 1
Common Name/ Trade Name	Chloroacetyl Chloride		Catalog Number(s).	C2396
			CAS#	79-04-9
Manufacturer	SPECTRUM QUALITY PRODUCTS INC.		RTECS	A06475000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: Chloroacetyl Chloride
Commercial Name(s)	Not available.		CI#	Not available.
Synonym	Not available.		DI CACE OF	THE CENCY
Chemical Name	Not available.			EMERGENCY 2 (24hr) 800-424-9300
Chemical Family	Not available.		CALL (310) 5	16-8000
Chemical Formula	C2-H2-Cl2-O			
Supplier	SPECTRUM QUALITY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Chloroacetyl Chloride		79-04-9	0.05			100
Toxicological Data on Ingredients  Chloroacetyl Chloride: ORAL (LD50): Acute: 220 mg/kg [Mouse]. 208 mg/kg [Rat]. DERMAL (LD50): Acute: 662 mg/kg [Rat].						

### Section 3. Hazards Identification

Potential Acute Health Effects Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant). Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

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Chloroacetyl Chlor	ride Page Number: 2
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Classified 4 (No evidence.) by NTP, None. by OSHA, None. by NIOSH.  MUTAGENIC EFFECTS: Not available.  TERATOGENIC EFFECTS: Not available.  DEVELOPMENTAL TOXICITY: Not available.  The substance may be toxic to eyes, central nervous system (CNS), ears, nose/sinuses, throat.  Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.	
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.	
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.	
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.	
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.	
<b>Serious Ingestion</b>	Not available.	

Section 5. Fire and Explosion Data		
Flammability of the Product	May be combustible at high temperature.	
<b>Auto-Ignition Temperature</b>	Not available.	
Flash Points	Not available.	
Flammable Limits	Not available.	
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO2), halogenated compounds.	
Fire Hazards in Presence of Various Substances	Not available.	
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available.  Risks of explosion of the product in presence of static discharge: Not available.	
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.	
Special Remarks on Fire Hazards	Not available.	
Special Remarks on Explosion Hazards	Not available.	

Chloroacetyl	Chloride Page Number: 3
Section 6. Acc	idental Release Measures
Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Large Spill	Corrosive liquid.  Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7. Handling and Storage		
Precautions	Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, alkalis.	
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F).	

Section 8. Exposure	Controls/Personal Protection	
<b>Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.	
<b>Personal Protection</b>	Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	
<b>Exposure Limits</b>	TWA: 0.05 STEL: 0.15 (ppm) from ACGIH (TLV) [United States] SKIN TWA: 0.05 from NIOSH TWA: 0.05 (ppm) [Denmark] TWA: 0.05 (ppm) [United Kingdom (UK)]	
	Consult local authorities for acceptable exposure limits.	

Section 9. Physical a	nd Chemical Properties		
Physical state and appearance	Liquid.	Odor	Pungent. (Strong.)
Molecular Weight	112.95 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Colorless to light yellow.
<b>Boiling Point</b>	105°C (221°F)		
Melting Point	-22°C (-7.6°F)		
Critical Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	2.5 kPa (@ 20°C)		
Vapor Density	3.9 (Air = 1)		
Volatility	Not available.		
Odor Threshold	0.011 ppm		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		

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<b>Dispersion Properties</b>	Partially dispersed in diethyl ether. See solubility in water, diethyl ether, acetone.	
Solubility	Partially soluble in diethyl ether, acetone.	

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Instability Temperature	Not available.	
<b>Conditions of Instability</b>	Not available.	
Incompatibility with various substances	Reactive with oxidizing agents, alkalis.	
Corrosivity	Not available.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	Will not occur.	

Section 11. Toxicological Information			
Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.		
Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.  Acute oral toxicity (LD50): 208 mg/kg [Rat].  Acute dermal toxicity (LD50): 662 mg/kg [Rat].  Acute toxicity of the gas (LC50): 1300 2 hours [Mouse].		
<b>Chronic Effects on Humans</b>	CARCINOGENIC EFFECTS: Classified 4 (No evidence.) by NTP, None. by OSHA, None. by NIOSH. May cause damage to the following organs: eyes, central nervous system (CNS), ears, nose/sinuses, throat.		
Other Toxic Effects on Humans	Hazardous in case of skin contact (corrosive, irritant), of eye contact (corrosive), of ingestion, of inhalation (lung irritant, lung corrosive).		
Special Remarks on Toxicity to Animals	Not available.		
Special Remarks on Chronic Effects on Humans	Not available.		
Special Remarks on other Toxic Effects on Humans	Not available.		

Section 12. Ecological Information			
Ecotoxicity	Not available.		
BOD5 and COD	Not available.		
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.		
Toxicity of the Products of Biodegradation	The products of degradation are as toxic as the product itself.		
Special Remarks on the Products of Biodegradation	Not available.		

### Section 13. Disposal Considerations

Waste Disposal

### Section 14. Transport Information

DOT Classification CLASS 6.1: Poisonous material.

Identification : Chloroacetyl Chloride, Poison Inhalation Hazard Zone B UNNA: 1752 PG: I

Special Provisions for Transport Not available.

DOT (Pictograms)



### Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations California prop. 65 (no significant risk level): Chloroacetyl Chloride Rhode Island RTK hazardous substances: Chloroacetyl Chloride

Pennsylvania RTK: Chloroacetyl Chloride

Florida: Chloroacetyl Chloride Minnesota: Chloroacetyl Chloride

Massachusetts RTK: Chloroacetyl Chloride New Jersey: Chloroacetyl Chloride

TSCA 8(b) inventory: Chloroacetyl Chloride

## California Proposition 65

Warnings

Other Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

CIA CIA SE 4: A SECOND STATE OF THE PROPERTY INVENTORY OF EXISTING CONTINUE TO SECOND STATE OF THE CIA SECOND STATE OF THE CIA

Other Classifications WHMIS (Canada) CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS E: Corrosive liquid.

DSCL (EEC) R34- Causes burns.

#### HMIS (U.S.A.)

Health Hazard	3
Fire Hazard	1
Reactivity	0
Personal Protection	

National Fire Protection Association (U.S.A.)

Health



## WHMIS (Canada) (Pictograms)





## DSCL (Europe) (Pictograms)



Chloroacetyl	Chloride
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TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



### **Protective Equipment**



Gloves.



Full suit.



Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Face shield.

### Section 16. Other Information

MSDS Code 4520C

References Not available.

Other Special Not available. Considerations

Validated by Sonia Owen on 8/11/2006.

Verified by Sonia Owen.

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CALL (310) 516-8000

### **Notice to Reader**

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.