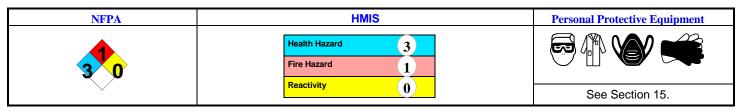




Material Safety Data Sheet



Section 1. Chemi	cal Product and Comp	pany Identificati	on			Pag	e Number: 1	
Common Name/ Trade Name	1,3-Dichloroacetone			Catalog Number(s).	D2076			
					CAS#	534-07-6		
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.				RTECS	UC1430000		
	14422 S. SAN PEDR GARDENA, CA 9024	O STREET		-	TSCA	TSCA 8(b 1,3-Dichloroa) inventory Icetone	
Commercial Name(s)	Not available.				CI#	Not available		
Synonym	1,3-Dichloro-2-propanone; alpha,alpha'-Dichloroacetone; alpha,gamma-Dichloroacetone; Bis(chloromethyl)ketone; sym-Dichloroacetone			IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300				
Chemical Name	2-Propanone, 1,3-dichloro-				-			
Chemical Family	Not available.			CALL (310) 516-8000				
Chemical Formula	C3-H4-Cl2-O							
Supplier	SPECTRUM LABORATO 14422 S. SAN PEDRO ST GARDENA, CA 90248).					
Section 2.Compos	sition and Information	on Ingredients						
					Exposure Limits	I		
Name	CAS # TWA (mg/		(mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weigh		
1) {1,3-}Dichloroaceton	e	534-07-6					100	
Toxicological Data on Ingredients	1,3-Dichloroacetone ORAL (LD50): DERMAL (LD50): VAPOR (LC50):	Acute: 20 mg/k Acute: 53 mg/k	g [Rabbit].	g [Mouse]. 7 mg/m³ 2 hours	[Mouse].		
Section 3. Hazar	rds Identification							
Potential Acute Health Effects	Very hazardous in ca over-exposure can itching. Skin inflamm	result in death. Infl	ammation	n of the e	ye is characteriz	zed by redness,	watering, an	

1,3-Dichloroacetor		Page Number: 2
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, liver. Repeated or prolonged exposure to the substance can produce target organs damage. to a highly toxic material may produce general deterioration of health by an accumul human organs.	
Section 4. First Aid	Measures	
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes for at least 15 minutes. Cold water may be used. Get medical attention immediately.	s with plenty of water
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 min contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold wate clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately shows a structure of the struc	er may be used.Wash
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bac	terial cream. Seek

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

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.

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical

immediate medical attention.

attention immediately.

Not available.

Get medical attention immediately.

Serious Ingestion

Inhalation

Ingestion

Serious Inhalation

Section 5. Fire and Explosion Data				
Flammability of the Product	May be combustible at high temperature.			
Auto-Ignition Temperature	Not available.			
Flash Points	Not available.			
Flammable Limits	Not available.			
Products of Combustion	These products are carbon oxides (CO, CO2), halogenated compounds.			
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames and sparks, of heat.			
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.			

1,3-Dichloroacetone			Page Number: 3			
Section 6. Accidental	Release Measures					
Small Spill	Use appropriate tools to put the spilled solid in a	convenier	t waste disposal container.			
Large Spill		asements	 Do not touch spilled material. Use water spray or confined areas; dike if needed. Eliminate all 			
Section 7. Handling a	and Storage					
Precautions	Keep locked up 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 dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.					
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.					
Section 8. Exposure	Controls/Personal Protection					
Engineering Controls		erations ge	ner engineering controls to keep airborne levels enerate dust, fume or mist, use ventilation to keep it.			
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.					
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boot used to avoid inhalation of the product. Sugge specialist BEFORE handling this product.	s. Gloves	A self contained breathing apparatus should be ective clothing might not be sufficient; consult a			
Exposure Limits	Not available.					
Section 9. Physical a	nd Chemical Properties					
Physical state and appearance	Solid. (Crystals solid.)	Odor	Not available.			
Molecular Weight	126.97 g/mole	Taste	Not available.			
pH (1% soln/water)	Not available.	Color	White to yellowish.			
Boiling Point	172°C (341.6°F) - 173°C.					
Melting Point	45°C (113°F)					
Critical Temperature	Not available.					
Specific Gravity	1.383 (Water = 1)					
Vapor Pressure	Not applicable.					
Vapor Density	4.38 (Air = 1)					
Volatility	Not available.					
Odor Threshold	Not available.					
Water/Oil Dist. Coeff.	Not available.					
Ionicity (in Water)	Not available.					
Dispersion Properties	See solubility in water, diethyl ether.					
Solubility	Soluble in cold water, diethyl ether. Solubility in Water: >10% Solubility in Ethanol: >10% Solubility in Ether: >10%					

1,3-Dichloroacetone

Section 10. Stability and Reactivity Data			
Stability	The product is stable.		
Instability Temperature	Not available.		
Conditions of Instability	Excess heat, ignition sources, dust generation		
Incompatibility with various substances	Not available.		
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. Inhalation. Ingestion.
Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 18.9 mg/kg [Mouse]. Acute dermal toxicity (LD50): 53 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 27 mg/m ³ 2 hours [Mouse].
Chronic Effects on Humans	MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: kidneys, liver.
Other Toxic Effects on Humans	Very hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May affect genetic material (mutagenic)
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes severe skin irritation. and numbness and tingling. It can be absorbed through the skin in harmful amounts. May be fatal if absorbed through the skin. It can cause system effects similar to that of ingestion if absorbed through skin. Eyes: Causes severe eye irritation. Lacrimator. May cause corneal damage and numbness and tingling. Inhalation: May be fatal if inhaled. May cause vomiting, nausea. May affect respiration (pulmonary edema), brain (increased intracranial pressure), behavior/central nervous system (CNS depression, dizziness, weakness, loss of coordination and judgement, fainting, tremor, coma, possibly death), kidneys, liver Ingestion: Toxic. May be fatal if swallowed. May cause nausea, vomiting, May affect behavior/central nervous system (CNS depression, somnolence, etc.), eyes (iritis), blood (changes in serum composition), kidneys, liver. Chronic Potential Health Effects: Skin: Repeated or prolonged skin contact may cause dermatitis.

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

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1,3-Dichloroaceton			Page Number: 5			
Special Remarks on the Products of Biodegradation	Not available. tion					
Section 13. Disposa	l Considerations					
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.					
Section 14. Transpo	ort Information					
DOT Classification	CLASS 6.1: Poisono	us material.				
Identification	UNNA: 2649 : 1,3-Di	chloroacetone PG: II				
Special Provisions for Transport	Not available.					
DOT (Pictograms)	POISON 6					
Section 15. Other R	egulatory Informa	tion and Pictograms				
Federal and State Regulations	Illinois chemical safety act: 1,3-Dichloroacetone New York release reporting list: 1,3-Dichloroacetone Pennsylvania RTK: 1,3-Dichloroacetone Massachusetts RTK: 1,3-Dichloroacetone Massachusetts spill list: 1,3-Dichloroacetone New Jersey: 1,3-Dichloroacetone Louisiana RTK reporting list: 1,3-Dichloroacetone TSCA 8(b) inventory: 1,3-Dichloroacetone TSCA 8(d) H and S data reporting: 1,3-Dichloroacetone: Effective date: 6/1/87; Sunset date: 12/19/95 SARA 302/304/311/312 extremely hazardous substances: 1,3-Dichloroacetone CERCLA: Hazardous substances.: 1,3-Dichloroacetone: 10 lbs. (4.536 kg)					
California Proposition 65 Warnings	found to cause can California prop. 65	cer which would require a warning unde This product contains the following in	ngredients for which the State of California ha er the statute: No products were found. ngredients for which the State of California ha g under the statute: No products were found.			
Other Regulations	EINECS: This produ No. 208-585-6). Canada: Listed on Na China: Listed on Na Japan: Listed on Na Korea: Listed on Na	Canadian Domestic Substance List (DSI ational Inventory. ational Inventory (ENCS). ational Inventory (KECI). on National Inventory (PICCS).	ting Commercial Chemical Substances (EINEC			
Other Classifications	WHMIS (Canada)	CLASS D-1A: Material causing immer CLASS D-2B: Material causing other	diate and serious toxic effects (VERY TOXIC). toxic effects (TOXIC).			
	DSCL (EEC)	R24- Toxic in contact with skin. R26/28- Very toxic by inhalation and if swallowed. R38- Irritating to skin. R41- Risk of serious damage to eyes.	S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of water. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the			

1,3-Dichloroacetone	•					Page Number: 6
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity Personal Protec	1	National Fire Protection Association (U.S.A.)	l Health	3 0	Flammability Reactivity Specific hazard
WHMIS (Canada) (Pictograms)						
DSCL (Europe) (Pictograms)	T					
TDG (Canada) (Pictograms)						
ADR (Europe) (Pictograms)						
Protective Equipment		approved/certifie	ar appropriate respirator is inadequate.			
Section 16. Other Inf	ormation					
MSDS Code 4440)D					
	vailable.					
Other SpecialMajorConsiderationscyani		t; synthesis of citri	ic acid based on the reaction	of glycero	I derived 1,3-d	ichloroacetone with
- , -	//2/2009.		Verified by Sonia Owe			

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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.