

## **4,5-Dichloro-1,3-dioxolan-2-one** Safety Data Sheet 2H28501 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/25/2016 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 4,5-Dichloro-1,3-dioxolan-2	-one	
CAS No	: 3967-55-3		
Product code	: 2H28-5-01		
Formula	: C3H2Cl2O3		
Synonyms	: 1,2-Dichloroethylene carbo	nato	
Other means of identification	: MFCD00005384	late	
	substance or mixture and uses ad	vised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and dev		
1.3. Details of the supplier of the sa	fety data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab			
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Compa	ny - Account 10069)	
SECTION 2: Horowd/o) idoutificat	ion		
SECTION 2: Hazard(s) identificat			
2.1. Classification of the substance Classification (GHS-US)	or mixture		
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling	•		
Hazard pictograms (GHS-US)	GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H315 - Causes skin irritatio H319 - Causes serious eye H335 - May cause respirato	irritation	
Precautionary statements (GHS-US)	P302+P352 - If on skin: Wa P304+P340 - If inhaled: Re P305+P351+P338 - If in ey lenses, if present and easy P312 - Call a POISON CEN P321 - Specific treatment (s P332+P313 - If skin irritatio P337+P313 - If eye irritatio P362+P364 - Take off cont P403+P233 - Store in a we P405 - Store locked up	ly after handling r in a well-ventilated area ves/protective clothing/eye protection/face protection ish with plenty of soap and water move person to fresh air and keep comfortable for b es: Rinse cautiously with water for several minutes. I to do. Continue rinsing ITER or doctor/physician if you feel unwell see supplemental first aid instructions on this label) n occurs: Get medical advice/attention n persists: Get medical advice/attention aminated clothing and wash it before reuse II-ventilated place. Keep container tightly closed	reathing
10/00/00 10		/container to an approved waste disposal plant	
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2.3. Other hazards				
No additional information available	-			
2.4. Unknown acute toxicity (GHS U	IS)			
Not applicable				
SECTION 3: Composition/information	ation on ing	gredients		
3.1. Substance				
Substance type	: Mono-	constituent		
Name		Product identifier	%	Classification (GHS-US)
4,5-Dichloro-1,3-dioxolan-2-one (Main constituent)		(CAS No) 3967-55-3	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measure		o of appident or if you fail.		huine immediately (shay: the left)
First-aid measures general	where	possible). Move the affected po	ersonnel away from	
	respira	ation. Get medical advice/attent	ion.	eathing. If not breathing, give artificial
First-aid measures after skin contact First-aid measures after eye contact		with plenty of soap and water.		attention. t 15 minutes. Remove contact lenses,
First-aid measures after ingestion	preser	nt and easy to do. Continue rins	ing. Get medical a	
inst-aid measures alter ingestion			anyunng by mouur	to an unconscious person. Minse
		out with water. Get medical ad	vice/attention.	
	effects, both a	acute and delayed		combod in the labelling (see conting
	effects, both a : The m	acute and delayed		escribed in the labelling (see section
Symptoms/injuries	effects, both a : The m 2.2) ar	acute and delayed nost important known symptoms nd/or in section 11.	and effects are de	escribed in the labelling (see section
Symptoms/injuries 4.3. Indication of any immediate me	effects, both a : The m 2.2) ar	acute and delayed nost important known symptoms nd/or in section 11.	and effects are de	escribed in the labelling (see section
Symptoms/injuries 4.3. Indication of any immediate me Treat symptomatically.	effects, both a : The m 2.2) an	acute and delayed nost important known symptoms nd/or in section 11.	and effects are de	escribed in the labelling (see section
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Symptoms/injuries 4.3. Indication of any immediate me Treat symptomatically. SECTION 5: Firefighting measure 5.1. Extinguishing media	effects, both a : The m 2.2) and dical attention es : Alcoho	acute and delayed nost important known symptoms nd/or in section 11.	and effects are de	escribed in the labelling (see section ter spray. Use extinguishing media
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Symptoms/injuries         4.3.       Indication of any immediate me         Treat symptomatically.         SECTION 5: Firefighting measure         5.1.       Extinguishing media         Suitable extinguishing media         5.2.       Special hazards arising from the         Fire hazard         Explosion hazard         5.3.       Advice for firefighters         Firefighting instructions         Protection during firefighting         SECTION 6: Accidental release m         6.1.       Personal precautions, protectiv	effects, both a : The m 2.2) at edical attention es : Alcoho approp e substance o : Therm : Risk o contai : In cas : Wear appara neasures re equipment a : Evacu	acute and delayed nost important known symptoms ind/or in section 11. In and special treatment needed of resistant foam. Carbon dioxid priate for surrounding fire. In mixture nal decomposition generates: C of explosion if heated under com- ners. e of fire: Evacuate area. Fight fi gas tight chemically protective of atus. For further information references and emergency procedures	and effects are de ad e. Dry powder. Wa arbon oxides. Hydr finement. Use wate re remotely due to clothing in combina er to section 8: "Ex	tter spray. Use extinguishing media rogen chloride. er spray or fog for cooling exposed the risk of explosion. ttion with self contained breathing
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ccording to Federal Register / Vol. 77, No. 58 / Monday,	March 26, 2012 / Rules and Regulations		
6.2. Environmental precautions			
Avoid release to the environment. Notify authorit	ies if product enters sewers or public waters.		
6.3. Methods and material for containme	ent and cleaning up		
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.		
Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.		
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".		
6.4. Reference to other sections			
No additional information available			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.		
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, including	ng any incompatibilities		
Technical measures	: Comply with applicable regulations.		
Storage conditions	Keep container closed when not in use.		
Incompatible materials	: Refer to Section 10 on Incompatible Materials.		
Storage area	: Store in dry, cool, well-ventilated area.		
SECTION 8: Exposure controls/pers	onal protection		
8.1. Control parameters			
No additional information available			
8.2. Exposure controls			
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.		
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.		
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.		
Skin and body protection	: Wear suitable protective clothing.		
Respiratory protection : In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.			
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.		
SECTION 9: Physical and chemical p	properties		
9.1. Information on basic physical and c	hemical properties		
Physical state	: Liquid		
Color	: No data available		

COIOI	. NO Udla avaliable	
Odor	: No data available	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: 178 °C (@ 739 mm Hg)	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Vapor pressure	: No data available	
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Relative density	: No data available		
Relative vapor density at 20 °C	: No data available		
Specific gravity / density	: 1.59 g/ml (@ 25 °C)		
Molecular mass	: 156.95 g/mol		
Solubility	: No data available		
Log Pow	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Viscosity	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
9.2. Other information			
Refractive index	: 1.463 (@ 20 °C)		
SECTION 10: Stability and read	ctivity		
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
The product is stable at normal handling and storage conditions.			
10.3. Possibility of hazardous reactions			
No additional information available			
10.4. Conditions to avoid			
Keep away from heat, sparks and flame.			

#### 10.5. Incompatible materials

Strong bases. Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

## **SECTION 11: Toxicological information**

	11	1.1	1.	Int	formati	on	on	toxi	co	log	ical	ef	fect	ts
--	----	-----	----	-----	---------	----	----	------	----	-----	------	----	------	----

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SEC	SECTION 12: Ecological information					
12.1.	Toxicity					
No ad	ditional information available					
12.2.	Persistence and degradability					
No add	ditional information available					
12.3.	Bioaccumulative potential					
No ado	ditional information available					
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#### 12.4. Mobility in soil

### No additional information available

## 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considera	ns
13.1. Waste treatment methods	. Demonstern sutherized incidentation equipmed with an effectiveness and a flue account has
Naste treatment methods Naste disposal recommendations	<ul> <li>Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> </ul>
Additional information	: Recycle the material as far as possible.
SECTION 14: Transport informat	
Department of Transportation (DOT)	
n accordance with DOT	
Not regulated for transport	
TDG	
No additional information available	
Fransport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	n
5.1. US Federal regulations	
All components of this product are listed, of Substances Control Act (TSCA) inventory	cluded from listing, on the United States Environmental Protection Agency Toxic ept for:
4,5-Dichloro-1,3-dioxolan-2-one	CAS No 3967-55-3 100%
	c chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 ements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986
15.2. International regulations	
CANADA No additional information available	
EU-Regulations No additional information available	
National regulations	
4,5-Dichloro-1,3-dioxolan-2-one (3967-5	
Listed on the Japanese ISHL (Industrial Sa	and Health Law)
5.3. US State regulations	
	not contain any substances known to the state of California to cause cancer
California Proposition 65 - This product o and/or reproductive harm	

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Full tex	t of H-phrases:					
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A				
	Skin Irrit. 2	Skin corrosion/irritation Category 2				
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3				
	H315	Causes skin irritation				
	H319	Causes serious eye irritation				
	H335	May cause respiratory irritation				
NFPA	health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.				
NFPA	fire hazard	: 1 - Must be preheated before ignition can occur.				
NFPA	reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.				
HMIS I	II Rating					
Health		: 2 Moderate Hazard - Temporary or minor injury may occur				
Flamm	ability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)				
		: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.				

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.