

trans-2,3-Butylene carbonate Safety Data Sheet 2H281E0 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/13/2016 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: trans-2,3-Butylene carbo	pnate	
CAS No	: 65941-76-6		
Product code	: 2H28-1-E0		
Formula	: C5H8O3		
Synonyms		ioxolan-2-one; threo-4,5-Dimethyl-1,3-dioxolan-2-one;	E_1 2-
Synonyms	Dimethylethylene carbo		L-1,2-
1.2. Relevant identified uses of the su	ubstance or mixture and uses	advised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substan Scientific research and		
1.3. Details of the supplier of the safe	ety data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.			
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Cor	npany - Account 10069)	
SECTION 2: Hazard(s) identification	on		
2.1. Classification of the substance o	r mixture		
Classification (GHS-US)			
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye inSTOT SE 3H335 - May cause respiratoryFull 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 irrita H319 - Causes serious H335 - May cause respi	eye irritation	
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing P264 - Wash skin thoro P271 - Use only outdoo P280 - Wear protective P302+P352 - If on skin: P304+P340 - If inhaled: P305+P351+P338 - If ir lenses, if present and ei P312 - Call a POISON 0 P321 - Specific treatmei P332+P313 - If skin irrit P337+P313 - If skin irrit P362+P364 - Take off c P403+P233 - Store in a P405 - Store locked up</li> </ul>	dust/fume/gas/mist/vapors/spray	breathing . Remove contact
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2.3. Other hazards				
No additional information available				
.4. Unknown acute toxicity (GHS US)				
lot applicable				
	on on ir	aradianta		
ECTION 3: Composition/informati	on on ii	igrealents		
.1. Substance	. Maa	o constituent		
Substance type	. 1001	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
trans-2,3-Butylene carbonate (Main constituent)		(CAS No) 65941-76-6	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text of H-phrases: see section 16				
.2. Mixture				
lot applicable				
ECTION 4: First aid measures				
.1. Description of first aid measures				
irst-aid measures general		ase of accident or if you feel unwell, seek to be a see		
irst-aid measures after inhalation		nove person to fresh air and keep comforta iration. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial
irst-aid measures after skin contact	: Was	h with plenty of soap and water. Get med	ical advice/atten	tion.
irst-aid measures after eye contact		: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.		
irst-aid measures after ingestion		: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.		
.2. Most important symptoms and effo	ects, both	acute and delayed		
ymptoms/injuries				
I.3. Indication of any immediate medic	al attentio	on and special treatment needed		
reat symptomatically.				
<b>ECTION 5: Firefighting measures</b>				
.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
.2. Special hazards arising from the s	ubstance	or mixture		
ire hazard	: The	mal decomposition generates: Carbon ox	ides.	
.3. Advice for firefighters				
irefighting instructions	: In ca	ase of fire: Evacuate area.		
Protection during firefighting				
apparatus. For further information refer to section 8: "Exposure controls/personal protection".				
ECTION 6: Accidental release me	asures			
		t and emergency procedures		
.1. Personal precautions, protective e	quipment : Evad	t and emergency procedures cuate unnecessary personnel. Ensure ade the gas, fumes, vapor or spray.	equate air ventila	tion. Do not breathe dust. Do not
.1. Personal precautions, protective e seneral measures	quipment : Evad	cuate unnecessary personnel. Ensure ade	equate air ventila	ition. Do not breathe dust. Do not
Personal precautions, protective e           General measures           6.1.1.           For non-emergency personnel	quipment : Evad brea	cuate unnecessary personnel. Ensure ade		
Seneral measures	quipment : Evad brea	cuate unnecessary personnel. Ensure ade the gas, fumes, vapor or spray.		

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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6.3.	Methods and material for containn	ent and cleaning up
For conta	ainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods	for cleaning up	: Minimize generation of dust. 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 inf	ormation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No addit	onal 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. Ens ventilation of the work station. Do not breathe dust, fumes, mist, spray, vapors 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, includi	ng any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.	
Incompatible materials	: Refer to Section 10 on Incompatible Materials.	
Storage area	: Store in dry, cool, well-ventilated area.	

# **SECTION 8: Exposure controls/personal protection**

#### **Control parameters** 8.1.

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.

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Relative density	: No data available	
/apor pressure	: No data available	
Dxidizing properties	: No data available	
Explosive properties	: No data available	
Explosion limits	: No data available	
Flammability (solid, gas)	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flash point	: No data available	
Boiling point	: 49 - 51 °C (@ 0.2 mm Hg)	
Freezing point	: No data available	
Melting point	: 37 - 38 °C	
рН	: No data available	
Odor threshold	: No data available	
Ddor	: No data available	
Color	: No data available	
Appearance	: Low melting solid.	
Physical state	: Solid	
<b>9.1.</b> Information on basic physical an	d chemical properties	

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Relative vapor density at 20 °C	: No data available
Molecular mass	: 116.12 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** 

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No add	itional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	itional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Acids. E	Bases. 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. Information on toxicological effects	11.1. Information on toxicological effects	
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

SECT	ION 12: Ecological information
12.1.	Toxicity
No add	itional information available
12.2.	Persistence and degradability
No add	itional information available
12.3.	Bioaccumulative potential
No add	itional information available
12.4.	Mobility in soil
No add	itional information available

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# 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consider	ations
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.
CECTION 44. Trenework informed	
SECTION 14: Transport informa	tion

## **Department of Transportation (DOT)**

In accordance with DOT

Not regulated for transport

### TDG

No additional information available

### Transport by sea

No additional information available

#### Air transport

No additional information available

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic

Substances Control Act (15CA) inventory exception.		
trans-2,3-Butylene carbonate	CAS No 65941-76-6	100%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

# 15.2. International regulations

CANADA

No additional information available

### **EU-Regulations**

No additional information available

### **National regulations**

No additional information available

# 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

# **SECTION 16: Other information**

# Full text 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	

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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	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 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.