Enabling Arthritis and Inflammation Research Worldwide

# Safety Data Sheet

## acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: January 11, 2024

Revision: January 11, 2024

- · Product identifier
- · Trade name: Chromogen Dilution Buffer
- · Product code: 90022
- · Recommended use and restriction on use
- · Recommended use: Laboratory chemicals
- · Restrictions on use: For Research Use Only Not Human or Therapeutic Use
- · Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier: Chondrex, Inc.
  16928 Woodinville-Redmond Rd NE Suite B-101 Woodinville, WA 98072 USA
  425-702-6365 support@chondrex.com
  Emergency telephone number: ChemTel LLC
  800-255-3924 (North America) (+1) 813-248-0585 (International)

### 2 Hazard(s) identification

- Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS).
- · Label elements

. . .

- · GHS label elements Not regulated.
- · Hazard pictograms: Not regulated.
- · Signal word: Not regulated.

· Hazard statements: Not regulated.

• Other hazards There are no other hazards not otherwise classified that have been identified.

Compone	nts:	
67-56-1	methanol	<
	Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370 Eye Irrit. 2B, H320	
5949-29-1	Citric acid monohydrate	<
	🚸 Eye Irrit. 2A, H319	

(Cont'd. on page 2)

Enabling Arthritis and Inflammation Research Worldwide

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: January 11, 2024

Revision: January 11, 2024

Trade name: Chromogen Dilution Buffer

(Cont'd. of page 1)

### **4** First-aid measures Description of first aid measures · After inhalation: Supply fresh air; consult doctor in case of complaints. · After skin contact: Immediately remove any clothing soiled by the product. Wash with soap and water. If skin irritation is experienced, consult a doctor. · After eye contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. Most important symptoms and effects, both acute and delayed: Slight irritant effect on eves. May be harmful if inhaled. May be harmful in contact with skin. May be harmful if swallowed. Gastric or intestinal disorders when ingested. Nausea in case of ingestion. Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

### **5** Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:
- The product is not flammable.
- Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: None.
- · Special hazards arising from the substance or mixture No relevant information available.
- · Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

## 6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation.

Use personal protective equipment as required.

- · Environmental precautions Avoid release to the environment.
- Methods and material for containment and cleaning up Towel or mop up material and collect in a suitable container.

For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard.

(Cont'd. on page 3)

Enabling Arthritis and Inflammation Research Worldwide

# Safety Data Sheet

## acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: January 11, 2024

Revision: January 11, 2024

Trade name: Chromogen Dilution Buffer

(Cont'd. of page 2)

### · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

#### · Handling

- **Precautions for safe handling:** Open and handle receptacle with care. Avoid contact with the eyes and skin. Avoid breathing mist, vapors, or spray.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles:
- Store in cool, dry conditions in well sealed receptacles.
- · Information about storage in one common storage facility: No relevant information available.
- $\cdot$  Further information about storage conditions: N/A
- · Specific end use(s) No relevant information available.

Control parameters			
-	rith limit values that require monitoring at the workplace:		
67-56-1 methanol			
PEL (USA)	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm		
REL (USA)	Short-term value: 325 mg/m <sup>3</sup> , 250 ppm		
	Long-term value: 260 mg/m³, 200 ppm Skin		
TLV (USA)	Short-term value: 328 mg/m <sup>3</sup> , 250 ppm Long-term value: 262 mg/m <sup>3</sup> , 200 ppm		
	Skin; BEI		
EL (Canada)	Short-term value: 250 ppm		
	Long-term value: 200 ppm Skin		
EV (Canada)	Short-term value: 325 mg/m <sup>3</sup> , 250 ppm		
	Long-term value: 260 mg/m³, 200 ppm Skin		
LMPE (Mexico)	Short-term value: 250 ppm		
	Long-term value: 200 ppm PIEL, IBE		





Enabling Arthritis and Inflammation Research Worldwide

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: January 11, 2024

Revision: January 11, 2024

## Trade name: Chromogen Dilution Buffer

	(Cont'd. of page 3)
· Ingredients with biological limit values:	
67-56-1 methanol	
BEI (USA) 15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)	
<ul> <li>Exposure controls</li> <li>Personal protective equipment:</li> <li>General protective and hygienic measures: The usual precautionary measures for handling chemicals should be Keep away from foodstuffs, beverages and feed.</li> <li>Engineering controls: No relevant information available.</li> <li>Breathing equipment: Wear appropriate NIOSH respirator when ventilation is inadequate exceeded.</li> <li>Protection of hands:</li> </ul>	
Protective gloves Rubber gloves • Not suitable are gloves made of the following materials: PVA g • Eye protection:	oves
Safety glasses	
Follow relevant national guidelines concerning the use of protective • Body protection: Protective work clothing • Limitation and supervision of exposure into the environr • Risk management measures No special requirements.	
9 Physical and chemical properties	
Information on basic physical and chemical properties     Appearance:     Form:     Liquid     Output	
Color:Clear· Odor:Alcohol-like· Odor threshold:Not determined.	
• pH-value:4.8-5.2• Melting point/Melting range:Not determined.• Boiling point/Boiling range:Not determined.	
Flash point: The product is not flamma	able.

(Cont'd. on page 5)

Enabling Arthritis and Inflammation Research Worldwide

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: January 11, 2024

Revision: January 11, 2024

Trade name: Chromogen Dilution Buffer

		(Cont'd. of page
<ul> <li>Flammability (solid, gaseous):</li> </ul>	Not applicable.	
· Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
<ul> <li>Oxidizing properties:</li> </ul>	Non-oxidizing.	
· Vapor pressure:	Not determined.	
· Density:		
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wat	ter): Not determined.	
· Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
<ul> <li>Other information</li> </ul>	No relevant information available.	

## 10 Stability and reactivity

- · Reactivity: No relevant information available.
- Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** Reacts with strong oxidizing agents. Reacts with strong alkali.
- · Conditions to avoid Excessive heat.
- Incompatible materials Alkalis
- Oxidizing agents
- Hazardous decomposition products

Under fire conditions only: Phosphorus oxides (e.g. P2O5) Carbon monoxide and carbon dioxide

(Cont'd. on page 6)

Page: 5/9

Enabling Arthritis and Inflammation Research Worldwide

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: January 11, 2024

Revision: January 11, 2024

#### Trade name: Chromogen Dilution Buffer

(Cont'd. of page 5)

### **11 Toxicological information**

· Information on toxicological effects

- · Acute toxicity:
- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- · On the skin: Based on available data, the classification criteria are not met.
- $\cdot$  On the eye: Based on available data, the classification criteria are not met.
- · Sensitization: Based on available data, the classification criteria are not met.

### · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

#### · OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

• Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

• Acute effects (acute toxicity, irritation and corrosivity):

May be harmful if swallowed, in contact with skin or if inhaled.

- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

### **12 Ecological information**

- · Toxicity
- Aquatic toxicity The product contains materials that are harmful to the environment.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- · Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

(Cont'd. on page 7)

Page: 6/9

Enabling Arthritis and Inflammation Research Worldwide

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: January 11, 2024

Revision: January 11, 2024

Trade name: Chromogen Dilution Buffer

(Cont'd. of page 6)

· Other adverse effects No relevant information available.

### 13 Disposal considerations

#### · Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

### · Uncleaned packagings

• **Recommendation:** Disposal must be made according to official regulations.

UN-Number		
DOT, ADR, IMDG, IATA	Not regulated.	
UN proper shipping name DOT, ADR, IMDG, IATA	Not regulated.	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA		
Class	Not regulated.	
Packing group		
DOT, ADR, IMDG, IATA	Not regulated.	
Environmental hazards		
Marine pollutant:	No	
Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex</li> </ul>	II of	
MARPOL73/78 and the IBC Code	Not applicable.	

## 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

- · United States (USA)
- · SARA

### · Section 302 (extremely hazardous substances):

None of the ingredients are listed.

(Cont'd. on page 8)

Page: 7/9

Enabling Arthritis and Inflammation Research Worldwide

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: January 11, 2024

Revision: January 11, 2024

Trade name: Chromogon Dilution Buffor

	(Cont'd. of
ection 355 (extremely hazardous substances):	
one of the ingredients are listed.	
ection 313 (Specific toxic chemical listings):	
7-56-1 methanol	
SCA (Toxic Substances Control Act)	
l ingredients are listed.	
oposition 65 (California)	
nemicals known to cause cancer:	
one of the ingredients are listed.	
nemicals known to cause reproductive toxicity for females:	
one of the ingredients are listed.	
nemicals known to cause reproductive toxicity for males:	
one of the ingredients are listed.	
nemicals known to cause developmental toxicity:	
7-56-1 methanol	
arcinogenic categories PA (Environmental Protection Agency):	
one of the ingredients are listed.	
RC (International Agency for Research on Cancer):	
one of the ingredients are listed.	
OSH-Ca (National Institute for Occupational Safety and Health):	
one of the ingredients are listed.	
anadian Domestic Substances List (DSL):	
l ingredients are listed.	

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision January 11, 2024 / -

 Abbreviations and acronyms: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistant, Bio-accumulable, Toxique vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety & Health Administration Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 3: Acute toxicity - Category 3 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

(Cont'd. on page 9)



Enabling Arthritis and Inflammation Research Worldwide

## **Safety Data Sheet**

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: January 11, 2024

Revision: January 11, 2024

### Trade name: Chromogen Dilution Buffer

(Cont'd. of page 8)

Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B STOT SE 1: Specific target organ toxicity (single exposure) - Category 1 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com