

Revision date 17-May-2021

# SAFETY DATA SHEET

Revision Number 1.1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier		
Product Name	10X Copper Stain	
Catalogue Number(s)	1610471, 1610471EDU	
Other means of identification		
Proper shipping name	CORROSIVE LIQUID, N.O.S.	
UN number	UN1760	
Recommended use of the chemical and restrictions on use		
Recommended use	Laboratory chemicals	
Uses advised against	No information available	
Details of the supplier of the safety data sheet		
Corporate Headquarters Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive Hercules, CA 94547 USA	<u>Manufacturer</u> Bio-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive Hercules, California 94547 USA	Legal Entity / Contact Address Bio-Rad Laboratories Pty Ltd 189 Bush Road Albany Auckland New Zealand
Technical Service	+64 9 415 2280 or 0508 805 500 sales.nz@bio-rad.com	
Emergency telephone number		
24 Hour Emergency Phone Number	CHEMTREC New Zealand: 64-98010034	

# **SECTION 2: Hazards identification**

**GHS Classification** 

Corrosive to metals	Category 1 (HSNO - 8.1A)
Acute toxicity - Oral	Category 4 (HSNO - 6.1D)
Acute toxicity - Dermal	Category 5 (HSNO - 6.1E)
Skin corrosion/irritation	Category 2 (HSNO - 6.3A)
Serious eye damage/eye irritation	Category 2 (HSNO - 6.4A)
Acute aquatic toxicity	Category 1 (HSNO - 9.1A)
Chronic aquatic toxicity	Category 2 (HSNO - 9.1B)

Label elements



Signal word

Warning

### **Hazard statements**

H290 - May be corrosive to metals
H302 - Harmful if swallowed
H313 - May be harmful in contact with skin
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H400 - Very toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid release to the environment Keep only in original packaging Wear protective gloves/protective clothing/eye protection/face protection

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

#### Skin

IF ON SKIN: Wash with plenty of water and soap If skin irritation occurs: Get medical advice/attention Take off all contaminated clothing and wash it before reuse

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

#### Spill

Collect spillage Absorb spillage to prevent material damage

#### **Precautionary Statements - Storage**

Store in corrosion resistant container with a resistant inner liner

#### **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Other hazards which do not result in classification

### SECTION 3: Composition/information on ingredients

Chemical name	CAS No	vveignt-%
Copper chloride (CuCl2)	7447-39-4	50 - 100

Non-hazardous ingredients Proprietary Balance

### SECTION 4: First aid measures

### Description of first aid measures

**General advice** 

Show this safety data sheet to the doctor in attendance.

Inhalation	Get medical attention immediately if symptoms occur. Remove to fresh air.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.	
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.	
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.	
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).	
Most important symptoms and effects, both acute and delayed		
Symptoms	May cause redness and tearing of the eyes. Burning sensation.	
Indication of any immediate medical attention and special treatment needed		
Note to doctors	Treat symptomatically.	

# SECTION 5: Firefighting measures

### Suitable Extinguishing Media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Unsuitable extinguishing media	No information available.	
Specific hazards arising from the chemical		
Specific hazards arising from the chemical	None known.	
Special protective actions for fire-fighters		
Special protective equipment for	Firefighters should wear self-contained breathing apparatus and full firefighting turnout	

gear. Use personal protection equipment.

# **SECTION 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.
Environmental precautions	
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods and material for containment and cleaning up	

fire-fighters

Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labelled containers.	
Precautions to prevent secondary hazards		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	

# SECTION 7: Handling and storage

### Precautions for safe handling

Advice on safe handling	Take off contaminated clothing and wash it before reuse. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.	
General hygiene considerations	Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Protect from moisture. Store locked up. Store away from other materials. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Store according to product and label instructions.	
Incompatible materials	Oxidising agent. Strong acids. Strong bases.	

# SECTION 8: Exposure controls/personal protection

### Control parameters

### Exposure Limits

Chemical name	New Zealand	ACGIH TLV	United Kingdom	Australia
Copper chloride (CuCl2)		TWA: 1 mg/m <sup>3</sup> Cu dust	-	
7447-39-4		and mist		

Biological occupational exposure	This product, as supplied, does not contain any hazardous materials with biological limits
limits	established by the region specific regulatory bodies.

### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	If splashes are likely to occur, wear safety glasses with side-shields.	
Hand protection	Impervious gloves. Wear suitable gloves.	
Skin and body protection	Long sleeved clothing. Wear suitable protective clothing.	

Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Environmental exposure controls	No information available.

# **SECTION 9: Physical and chemical properties**

Information on basic physical and o	chemical properties	
Physical state	Liquid	
Appearance	Liquid	
Colour	blue	
Odour	Odourless.	
Odour threshold	No information available	
_		
Property	<u>Values</u>	Remarks • Method
рН	No information available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapour pressure	No data available	None known
Vapour density	No data available	None known
Relative density	No data available	None known
Water solubility	Miscible in water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	Not applicable.	
Oxidising properties	Not applicable.	
Other information		
Molecular weight	Not applicable	
VOC Content (%)	Not applicable	

# SECTION 10: Stability and reactivity

Reactivity	
Reactivity	No information available.
Chemical stability	
Stability	Stable under normal conditions.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

Possibility of hazardous reactions	None under normal processing.
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Conditions to avoid

**Conditions to avoid** Exposure to air or moisture over prolonged periods.

Incompatible materials

Incompatible materials Oxidising agent. Strong acids. Strong bases.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

# **SECTION 11: Toxicological information**

### Acute toxicity

Information on likely routes of exposure

### **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Irritating to eyes. Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components).
Skin contact	Causes skin irritation. (based on components). Specific test data for the substance or mixture is not available.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).
Symptoms	Redness. May cause redness and tearing of the eyes.
Acute toxicity	

Numerical measures of toxicity

# The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)1,153.6942 mg/kgATEmix (dermal)2,418.00 mg/kg

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Copper chloride (CuCl2)	= 140 mg/kg (Rat) = 584 mg/kg (Rat)	-	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.

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 Respiratory irritation Narcotic effects	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. 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.

### SECTION 12: Ecological information

<u>Ecotoxicity</u>	
Ecotoxicity	Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Aquatic ecotoxicity	
Unknown aquatic toxicity	0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.
Terrestrial ecotoxicty	There is no data for this product.
Persistence and degradability	No information available.
Bioaccumulative potential	
Bioaccumulation	No information available.
Mobility in soil	
Other adverse effects	

No information available.

### SECTION 13: Disposal considerations

### Waste treatment methods

Contaminated packagingFor packages that have been in direct contact with hazardous substances, the person must<br/>ensure that the package is rendered incapable of containing any substance. It must be<br/>disposed of in a manner that is consistent with the requirements for disposal of the<br/>substance that it contained, taking into account the material the package is manufactured<br/>from<br/>Packages may only be reused or recycled if the package has been treated to remove any<br/>residual contents of the hazardous substance (class 1, 2, 3, 4, or 5); or the contents of the<br/>residue in the package are below the threshold for the substance to be classified as<br/>hazardous (class 6, 8, or 9 substance)

## **SECTION 14: Transport information**

ΙΑΤΑ	
UN number	UN1760
UN proper shipping name	Corrosive liquid, n.o.s.
Transport hazard class(es)	8
Packing group	111
ERG Code	8L
Special Provisions	A3, A803
Description	UN1760, Corrosive liquid, n.o.s., 8, III
IMDG UN number UN proper shipping name Transport hazard class(es) Packing group EmS-No Special Provisions Marine pollutant Description	UN1760 CORROSIVE LIQUID, N.O.S. (Copper chloride (CuCl2)), Marine pollutant 8 III F-A, S-B 274, 223 P UN1760, CORROSIVE LIQUID, N.O.S. (Copper chloride (CuCl2)), 8, III, Marine pollutant

Transport in bulk according to Annex II of MARPOL and the IBC Code No information available

# **SECTION 15: Regulatory information**

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

### National regulations

### New Zealand

Chemical name		New Zealand HSNO Chemical Classification
Copper chloride (CuCl2) - 7447-39-4		6.1B (AII),6.1B (O),6.1E (I),6.3B,6.4A,6.5B,6.9B (AII),6.9B (O),9.1A (AII),9.1A (A),9.1A (C),9.1A (F),9.2D,9.3A
National regulations	See Section 8 for any applicable tolerable exposure limits and environmental exposure limits	
Certified handlers, tracking and controlled substance license requirements	Certified handlers are required for some substances. This includes for substances requiring a controlled substance license, including Class 1 explosives, vertebrate toxic agents (9.3A, B, C), and certain fumigants. Class 6.1A and 6.1B substances such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information Controlled substance licenses are required to possess certain class 1 (explosive) and class 6 (vertebrate toxic agents or fumigants) substances. See Part 7 of the Health and Safety at Work Regulation 2017 for more information	
EPA New Zealand HSNO approval	Not applicable	

# code or group standard

## International Inventories

Contact supplier for inventory compliance status

### Legend:

### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

<b>SECTION 16</b>	Other information
Prepared By	Bio-Rad Laboratories, Environmental Health and Safety
Revision date	17-May-2021
<b>Revision Note</b>	*** Indicates this information has changed since the previous revision.
	abbreviations and acronyms used in the safety data sheet : EXPOSURE CONTROLS/PERSONAL PROTECTION
TWA Ceiling C	TWA (time-weighted average)STELSTEL (Short Term Exposure Limit)Maximum limit value*Skin designationCarcinogen*Skin designation
Agency for Toxic U.S. Environment European Food S EPA (Environment Acute Exposure C U.S. Environment U.S. Environment Food Research Ju Hazardous Subst International Unifo Japan GHS Class Australian National NIOSH (National National Library of National Library of National Library of National Toxicolo New Zealand's Cl Organisation for E Organisation for E	Ince Database rm Chemical Information Database (IUCLID) fication I Industrial Chemicals Notification and Assessment Scheme (NICNAS) nstitute for Occupational Safety and Health) Medicine's ChemID Plus (NLM CIP) Medicine's PubMed database (NLM PUBMED) y Program (NTP) emical Classification and Information Database (CCID) conomic Co-operation and Development Environment, Health, and Safety Publications conomic Co-operation and Development High Production Volume Chemicals Programme conomic Co-operation and Development Screening Information Data Set of Toxic Effects of Chemical Substances)
Disclaimer	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**