

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: OSHA 29 CFR 1910.1200

Document Type US - OSHA GHS

Revision date 04-Apr-2022

Version 5

1. Identification	
Product identifier	
Product name	BfuCl
Other means of identification	
Product No	R0636
Synonyms	Discontinued None
Recommended use of the chemical	and restrictions on use
Recommended use	This product is for research and development only
Restrictions on use	No information available
Details of the supplier of the safety of	data sheet
Supplier Address New England BioLabs 240 County Road Ipswich, MA 01938 USA	
Emergency telephone number	
Company Phone Number	978-927-5054, 800-632-5227 (toll free)
Telefax E-mail address 24 Hour Emergency Phone Number	978-921-1350 info@neb.com 978-380-2125

2. Hazard(s) identification

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Colorless	Physical state Liquid	Odor Mild
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Other information

No information available.

3. Composition/information on ingredients

Substance

Not applicable.

<u>Mixture</u>

4. First-aid measures

Description of first aid measures

Inhalation	Remove to fresh air.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water.	
Ingestion	Rinse mouth.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate modical attention and enocial treatment needed		

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.
Explosion data Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Other information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	No special protective equipment required.	
Skin and body protection	No special protective equipment required.	
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.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.	

9. Physical and chemical properties

Information on basic physical and chemical properties

information on basic physical and c		
Physical state	Liquid	
Appearance	Colorless	
Color	No information available	
Odor	Mild	
Odor threshold	No information available	
Description	Mahaa	Demonster Method
Property	<u>Values</u>	Remarks • Method
pH	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling	No data available	None known
range	No data available	None known
Flash point		None known
Evaporation rate	No data available	
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		
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
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
Other information	No information available	
Explosive properties		
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	

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Bulk density

No information available

10. Stability and reactivity	
Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	No information available.
Acute toxicity	
Numerical measures of toxicity	
The following values are calculated ATEmix (oral) ATEmix (dermal)	I based on chapter 3.1 of the GHS document 21,965.20 mg/kg 19,322.50 mg/kg
ATEINIX (dermai)	19,322.30 mg/kg
Component Information	19,322.30 mg/kg
Component Information	vell as chronic effects from short and long-term exposure
Component Information	
Component Information <u>Delayed and immediate effects as v</u>	vell as chronic effects from short and long-term exposure
Component Information <u>Delayed and immediate effects as v</u> Skin corrosion/irritation	vell as chronic effects from short and long-term exposure No information available.
Component Information <u>Delayed and immediate effects as to</u> Skin corrosion/irritation Serious eye damage/eye irritation	vell as chronic effects from short and long-term exposure No information available. No information available.

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Torrat organ offecto	
Target organ effects	Eyes, Kidney, Respiratory system, Skin.
Aspiration hazard	Eyes, Kidney, Respiratory system, Skin. No information available.
Aspiration hazard	No information available.

12. Ecological information

Ecotoxicity

Persistence and degradability	No information available.
Bioaccumulation	
Component Information	

Other adverse effects	No information available.
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13. Disposal considerations

Waste treatment methods	
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

14. Transport information

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated

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RID	Not regulated	
ADR	Not regulated	
ADN	Not regulated	

15. Regulatory information

International Inventories

Contact supplier for inventory compliance status.

DSL/NDSL EINECS/ELINCS	Contact supplier for inventory compliance status. Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIOC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information							
NFPA HMIS	Health haza Health haza		Flammability Flammability		Instability 0 Physical hazards	0	Special hazards - Personal protection X
Koy or logond to	abbreviations and a	oronyma	used in the cofe	tu data	shoot		
	8: EXPOSURE CON						
TWA	TWA (time-weighte			STEL		Torm	n Exposure Limit)
Ceiling	Maximum limit valu		*		Skin designa		
Kev literature re	ferences and source	s for data	used to compile	e the SI	DS		
	Substances and Dise						
	tal Protection Agency						
European Food S	Safety Authority (EFSA	.)					
EPA (Environmer	ntal Protection Agency)					
Acute Exposure C	Guideline Level(s) (AE	GL(s))					
	tal Protection Agency						
	tal Protection Agency	High Prod	uction Volume Ch	emicals	3		
Food Research J							
Hazardous Subst							
	orm Chemical Informa						
	of Technology and Ev						
	I Industrial Chemicals			nt Schei	me (NICNAS)		
,	Institute for Occupation		,				
	of Medicine's ChemID						
	of Medicine's PubMed	database	(NLM PUBMED)				
	gy Program (NTP)						
	hemical Classification						
					lealth, and Safety Public		
					n Volume Chemicals Pro	ograr	n
	Economic Co-operatio	n and Dev	elopment Screeni	ing Info	rmation Data Set		
World Health Org	anization						
Prepared by			ental, Health and	Safety			
		978-927-5					
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Revision note Disclaimer		SDS is va	lid 3 years from re	evision	date. Contact info@neb.	com	tor latest revision.
	provided in this Safe	ety Data S	heet is correct to	o the b	est of our knowledge a	ind b	elief at the date of

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End of Safety Data Sheet