# **Safety Data Sheet**



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

#### Identification of the substance or mixture

Product code NRBB0001

Product name BINDING BUFFER

# Company/undertaking identification

Redbud Labs Inc
400 Park Offices Dr
5250 Mainway Drive
Morrisville, NC 27709
USA
Tel.: +1 (919) \_ 537-9753
Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
800/263-6236

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

Exposure, or Accident. Call CHEMTREC Outside the USA + Canada: 1-703-741-5970 Country Specific

**Emergency Number (if available):** 

For research use only. Not for use in diagnostic procedures

# **SECTION 2: Hazards identification**

# **GHS Classification**

Signal Word WARNING

# Hazard pictograms



#### **Health hazards**

Acute oral toxicity	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2

# **Physical hazards**

Not classified

Revision date 01-Mar-2024 Page 1 / 8Product code NRBB0001 Product name BINDING BUFFER

#### **Environmental hazards**

Chronic aquatic hazard Category 3

#### **Hazard Statements**

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

### **Precautionary Statements**

#### **Prevention**

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

#### Response

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P330 - Rinse mouth

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P337 + P313 - If eye irritation persists: Get medical advice/attention

P362 + P364 - Take off contaminated clothing and wash it before reuse

#### Storage

Not Applicable

#### Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

#### Other hazards

Not Applicable

#### **HMIS**

Health	2
Flammability	0
Reactivity	0

# **SECTION 3: Composition/information on ingredients**

Chemical Name	CAS No.	Common name	EC No.	Weight-%
Thiocyanic acid, compound with guanidine (1:1)	593-84- 0	Not applicable	209-812-1	25-40

We recommend handling all chemicals with caution. Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes containing this product.

SECTIO	N 4:	First	aid	measures
--------	------	-------	-----	----------

NRBB0001

#### Description of first aid measures

**Skin contact** Rinse skin with water. Immediate medical attention is not required.

**Eye contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

**Ingestion** Not expected to present a significant ingestion hazard under anticipated

conditions of normal use. If you feel unwell, seek medical advice.

**Inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

# Most important symptoms and effects, both acute and delayed

H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H412 - Harmful to aquatic life with long lasting effects

### Indication of any immediate medical attention and special treatment needed

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wear protective gloves/protective clothing and eye/face protection.

# **SECTION 5: Firefighting measures**

# Extinguishing media

**Suitable extinguishing media** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. **Unsuitable extinguishing media** No information available.

# Special hazards arising from the substance or mixture No data

Hazardous Combustion Products

None under normal use conditions.

Advice for firefighters Standard procedure for chemical fires.

# **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment

See section 8 for more information

#### **Environmental precautions**

No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material.

#### Reference to other sections

See section 8 for more information.

# **SECTION 7: Handling and storage**

#### Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.

# Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

### **Storage Conditions**

Room Temperature

#### Specific end use(s)

For research use only. Not for use in diagnostic procedures.

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

#### **Control parameters**

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Thiocyanic acid, compound with guanidine (1:1)	None	None	None	None

Chemical Name	Brazil - OEL - TWAs (LTs)	Brazil - OEL - Ceilings	Brazil - OEL - Skin Designations
Thiocyanic acid, compound with	None	None	None
guanidine (1:1)			

**Engineering Measures** 

Ensure adequate ventilation, especially in confined areas.

#### **Exposure controls**

**Personal Protective Equipment** 

Respiratory protection In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

**Hand protection** Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

#### **Environmental exposure controls**

No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

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

Information on basic physical and chemical properties

Physical state liquid

Color No data
Odor No data

Revision date 01-Mar-2024 Page 4 / 8Product code NRBB0001 Product name BINDING BUFFER

Molecular Weight No data

Melting point / melting range°C No data°F No dataBoiling point / boiling range°C No data°F No data

Flammability (solid, gas)

Lower explosion limit

Upper explosion limit

Flash point

No data

No data

No data

No data

Autoignition Temperature

°C No data

°F No data

Decomposition temperature

°C No data

°F No data

Evaporation rate
Viscosity
Solubility
No data
Partition coefficient:
No data

n-octanol/water

Vapor Pressure
Specific gravity
No data
Relative density
No data
Vapor density
No data
Vapor density
Explosive properties
Oxidizing properties
No data
Particle characteristics
No data

Other information

# Information with regard to physical hazard classes

No information available

#### Other safety characteristics

No information available

# **SECTION 10: Stability and reactivity**

°F No data

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

Conditions to avoid Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach

to any liquid wastes containing this product.

**Incompatible materials** No dangerous reaction known under conditions of normal use.

Hazardous None under normal use conditions.

decomposition products

# **SECTION 11: Toxicological information**

# Information on toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Thiocyanic acid, compound with	593 mg/kg	No data available	No data available
guanidine (1:1)	эээ шуку	ino data avallable	ino data avallable

**Principal Routes of Exposure** 

Harmful if swallowed. Acute toxicity

Skin corrosion/irritation Skin irritation

Serious eye damage/irritationCauses serious eye irritation

Respiratory or skin Data are conclusive but insufficient for classification sensitization

Specific target organ toxicity Data are conclusive but insufficient for classification (STOT)

- single exposure

Specific target organ toxicity Data are conclusive but insufficient for classification (STOT) - repeated exposure

Carcinogenicity Data are conclusive but insufficient

for classification

Germ cell mutagenicity for classification Data are conclusive but insufficient

Data are conclusive but insufficient Reproductive toxicity

for classification

Data are conclusive but insufficient

**Aspiration hazard** for classification

# **SECTION 12: Ecological information**

#### **Toxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
Thiocyanic acid, compound with guanidine (1:1)	No data available	No data available	No data available	No data available	No data available

Mobility in soil No information available.

# Persistence and degradability

No information available. Bioaccumulative

No information available. potential

Results of PBT and vPvB assessment No information available.

Other adverse effects No information

available.

# **SECTION 13: Disposal considerations**

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

NRBB0001

# **SECTION 14: Transport information**

#### IATA / ADR / DOT-US / IMDG

Not classified as dangerous in the meaning of transport regulations

# INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA)

This product is not classified as dangerous goods, per the International Air Transport Association.

UN number or ID number
UN proper shipping name
Transport hazard class(es)
Not Applicable
Packing group
Not Applicable
Not Applicable

**Environmental hazards** IMDG Marine pollutant: No

# Special precautions for user

Not Applicable

# Maritime transport in bulk according to IMO instruments

Not Applicable.

# **SECTION 15: Regulatory information**

Component	US TSCA
Thiocyanic acid, compound with guanidine (1:1) 593-84-0 ( 25-40 )	Listed

# **US Federal Regulations**

#### **SARA 313**

This product is not regulated by SARA.

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

# **US State Regulations**

# California Proposition 65

This product does not contain any Proposition 65 chemicals.

# WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

NRBB0001

#### **National Regulations - Brazil**

Chemical Name	CAS No.	Brazil - National Agency for Sanitary Surveillance (ANVISA)	Brazil - National List of Carcinogen Agents to Humans (LINACH)	
Thiocyanic acid, compound with guanidine (1:1)	593-84-0	Not Listed	Not Listed	
SECTION 16: Other information				

**Reason for revision** SDS sections updated.

Revision number

Revision date 01-Mar-2024

For research use only. Not for use in diagnostic procedures.

#### References

ECHA: http://echa.europa.eu/

• TOXNET: http://toxnet.nlm.nih.gov/

eChemPortal: http://www.echemportal.org/

• LOLI database: https://www.chemadvisor.com/loli-database

# Abbreviations and acronyms

TWA - Time-Weighted Average

**OELs** - Occupational Exposure Limits

STEL - Short Term Exposure Limit

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

**KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

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

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

CEPA - Canadian Environmental Protection Act

**EPA** - Environmental Protection Agency

OSHA - Occupational Safety and Health Administration of the US Department of Labor

IATA - International Air Transport Association

**DOT** - Department of Transportation

**IMDG** - International Maritime Dangerous Goods

**ACGIH** - American Conference of Governmental Industrial Hygienists

NIOSH - National Institute for Occupational Safety and Health

AIHA - American Industrial Hygiene Association

Revision date 01-Mar-2024

HMIS - Department of Defense Hazardous Materials Information System

NTP - National Toxicology Program

IARC - International Agency for Research on Cancer

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

# **End of Safety Data Sheet**

NRBB0001

Product name BINDING BUFFER

Page 8 / 8Product code