

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 07/23/2018 Version: 1.1

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

**Product identifier** 

: BL3 BUFFER Trade name

Relevant identified uses of the substance or mixture and uses advised against 1.2.

: Laboratory use/Manufacturing component/Research

Details of the supplier of the safety data sheet 1.3.

Circulomics 701 E. Pratt St Baltimore, MD 21202 - USA T 410.996.4762

**Emergency telephone number** 

**Emergency number** : 410.996.4762

### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

### Classification (GHS-US)

Acute Tox. 4 (Oral) H302 Skin Irrit. 2 H315

#### 2.2. Label elements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H302 - Harmful if swallowed H315 - Causes skin irritation

Precautionary statements (GHS-US) : P264 - Wash hands, forearms, face thoroughly after handling

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

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

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

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

P330 - If swallowed, rinse mouth

P332+P313 - If skin irritation occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse P501 - Dispose of contents/container to approved waste facility

### Other hazards

No additional information available

#### Unknown acute toxicity (GHS-US) 2.4.

No data available

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

#### **Substance** 3.1.

Not applicable

Full text of H-phrases: see section 16

#### 3.2. **Mixture**

Name	Product identifier	%	Classification (GHS-US)
guanidine,hydrochloride	(CAS No) 50-01-1	< 90	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315

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#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation

occurs: Consult a doctor/medical service. Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON

CENTER/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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

No additional information available

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### **SECTION 6: Accidental release measures**

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

### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and

when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms, face thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight.

Keep container closed when not in use.

Incompatible products : Strong bases. strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

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#### 7.3. Specific end use(s)

No additional information available

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

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear approved mask.

Other information : When using, do not eat, drink or smoke.

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

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : No data available Odor : characteristic. Odor threshold No data available рН No data available Relative evaporation rate (butyl acetate=1) No data available No data available Melting point : No data available Freezing point Boiling point No data available Flash point No data available Self ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative vapor density at 20 °C No data available Relative density No data available Solubility No data available Log Pow : No data available No data available Log Kow

Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosive limits : No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

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#### 10.5. Incompatible materials

strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

guanidine,hydrochloride (50-01-1)	
LD50 oral rat	475 mg/kg (Rat)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed.

### **SECTION 12: Ecological information**

Symptoms/injuries after skin contact

Symptoms/injuries after ingestion

#### 12.1. Toxicity

guanidine,hydrochloride (50-01-1)	
LC50 fish 1	1758 mg/l (48 h; Leuciscus idus)

: Swallowing a small quantity of this material will result in serious health hazard.

: Causes skin irritation.

### 12.2. Persistence and degradability

BL3 BUFFER	
Persistence and degradability	Not established.

# guanidine,hydrochloride (50-01-1) Persistence and degradability Not readily biodegradable in water.

#### 12.3. Bioaccumulative potential

BL3 BUFFER		
Bioaccumulative potential	Not established.	
guanidine,hydrochloride (50-01-1)		
Log Pow	-1.7	
Bioaccumulative potential	Bioaccumulation: not applicable.	

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to approved waste facility.

Ecology - waste materials : Avoid release to the environment.

### **SECTION 14: Transport information**

In accordance with DOT

No dangerous good in sense of transport regulations

**Additional information** 

Other information : No supplementary information available.

**ADR** 

Transport document description : UN N/A
Packing group (ADR) : N/A
Hazard identification number (Kemler No.) : N/A
Classification code (ADR) : N/A

Transport by sea

No additional information available

Air transport

No additional information available

### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### guanidine, hydrochloride (50-01-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### **CANADA**

No additional information available

### **EU-Regulations**

No additional information available

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

### 15.2.2. National regulations

No additional information available

### 15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

Other information : None.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2

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H302	Harmful if swallowed
H315	Causes skin irritation

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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