

#### 1. IDENTIFICATION

Product Name Buffer B1

Recommended use of the chemical and

restrictions on use

**Identified Uses** For Research and Development Use Only

Company Identification Covaris, Inc.

Customer Information Number 14 Gill Street, Unit H

Woburn, MA 01801 (781) 932-3959

Emergency Telephone Number (800) 424-9300 (for emergencies only)

Chemtrec Number (800) 424-9300 Issue Date September 25, 2013

**Supersedes Date** 

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

#### 2. HAZARD IDENTIFICATION

#### **Hazard Classification**

Acute toxicity (oral) - Category 4
Acute hazards aquatic environment - Category 3

### **Label Elements**

Hazard Symbols



Signal Word: Warning

#### **Hazard Statements**

Harmful if swallowed. Harmful to aquatic life.

### **Precautionary Statements**

## **Prevention**

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Avoid release to the environment.

### Response

Rinse mouth.

If swallowed: Call a poison center or doctor/physician if you feel unwell.

### Storage

None

# **Disposal**

Dispose of contents/container in accordance with local regulation.



### 2. HAZARD IDENTIFICATION

# **Other Hazards**

Contact with acids may release toxic gas.

### **Specific Concentration Limits**

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity 0 - 10%

Acute dermal toxicity 60 - 70%

Acute inhalation toxicity 60 - 70%

Acute aquatic toxicity 60 - 70%

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

 Component
 CAS Number
 Concentration

 Thiocyanate compound
 N/A
 60 - 70%

 Water
 7732-18-5
 30 - 40%

 Buffer solution
 N/A
 1 - 10%%

### 4. FIRST- AID MEASURES

### **Description of necessary first-aid measures**

#### **Eves**

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

#### Skin

Wash affected area with plenty of water. Seek medical attention if symptoms persist.

#### Ingestion

Do not induce vomiting. Have victim drink 1-3 glasses of water to dilute stomach contents. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing. Obtain medical attention immediately.

# Inhalation

Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention if symptoms persist.

# Most important symptoms/effects, acute and delayed

Aside from the information found under description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

# Indication of immediate medical attention and special treatment needed

# **Notes to Physicians**

Treat symptomatically.

# 5. FIRE - FIGHTING MEASURES

# Suitable (and unsuitable) Extinguishing Media

Use foam, dry chemical or carbon dioxide. Use water spray for surroundings and containers.



#### 5. FIRE - FIGHTING MEASURES

# Specific hazards arising from the chemical

This product may give rise to toxic gases in a fire.

### **Special Protective Actions for Fire-Fighters**

Wear full protective clothing and self-contained breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing.

### **Environmental Precautions**

Prevent the material from entering drains or watercourses.

#### Methods and materials for containment and cleaning up

Contain and absorb using earth, sand or other insert material. Transfer into suitable containers for recovery or disposal.

## 7. HANDLING AND STORAGE

# Precautions for safe handling

Wear appropriate protective equipment when handling. Do not eat or drink while handling this material.

#### Conditions for safe storage

Store at room temperature away from heat and direct sunlight.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

Exposure limits are listed below, if they exist.

## Thiocyanate Compound

None established.

# Appropriate engineering controls

No specific measures necessary.

## Individual protection measures

# **Respiratory Protection**

Respiratory protection not normally required.

### **Skin Protection**

Chemical resistant gloves

# **Eye/Face Protection**

Chemical goggles or safety glasses with side shields

#### **Body Protection**

Normal work wear.



### 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Appearance**

Physical State Liquid

Color Colorless

Odor None

Odor Threshold No data available

pH 4.86 Specific Gravity 1.01

Boiling Range/Point (°C/F)

Melting Point (°C/F)

Flash Point (PMCC) (°C/F)

Vapor Pressure

Evaporation Rate (BuAc=1)

No data available
No data available

Solubility in Water Complete

Vapor Density (Air = 1)No data availableVOC (g/l)No data availablePartition coefficient (n-No data available

octanol/water)

Viscosity
Auto-ignition Temperature
Decomposition Temperature
Upper explosive limit
Lower explosive limit
Flammability (solid, gas)

No data available

# 10. STABILITY AND REACTIVITY

## Reactivity

No known reactivity.

# **Chemical Stability**

Stable under normal conditions.

### Possibility of hazardous reactions

Hazardous polymerization will not occur.

# **Conditions to Avoid**

Heat - high temperatures - contact with incompatible materials

# **Incompatible Materials**

Strong oxidizing agents - acids

# **Hazardous Decomposition Products**

Oxides of carbon - hydrogen cyanide - sulfur oxides - oxides of nitrogen - ammonia

#### 11. TOXICOLOGICAL INFORMATION

# **Acute Toxicity**

Thiocyanate Compound: Oral LD50 (rat) 593 mg/kg



# 11. TOXICOLOGICAL INFORMATION

# Specific Target Organ Toxicity (STOT) - single exposure

No data available to indicate product or components will cause target organ effects after a single exposure.

## Specific Target Organ Toxicity (STOT) - repeat exposure

No data available to indicate product or components will cause target organ effects after repeated exposure.

# Serious Eye damage/Irritation

No data available to indicate product may cause eye irritation.

# **Skin Corrosion/Irritation**

No data available to indicate product may cause skin irritation.

#### Respiratory or Skin Sensitization

No data available to indicate product or components may cause skin or respiratory sensitization.

# Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA.

# Germ Cell Mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

## **Reproductive Toxicity**

No data available to indicate either product or components present at greater than 0.1% may cause reproductive toxicity or birth defects.

### **Aspiration Hazard**

Not an aspiration hazard.

### 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

Thiocyanate Compound

EC50 (daphnia magna) 42.4 mg/l 48 hr

# Mobility in soil

No relevant studies identified.

# Persistence/Degradability

No relevant studies identified.

### **Bioaccumulative Potential**

No relevant studies identified.

### Other adverse effects

No relevant studies identified.

## 13. DISPOSAL CONSIDERATIONS

# **Disposal Methods**

Dispose of in accordance with all applicable local and national regulations.



#### 14. TRANSPORT INFORMATION

DOT CFR 172.101 Data

UN Proper Shipping Name

Not Regulated

Not Regulated

UN Class None.
UN Number None.
UN Packaging Group None.

Classification for AIR Consult current IATA Regulations prior to shipping by air.

Transportation (IATA)

Environmental Hazards Not a marine pollutant

### 15. REGULATORY INFORMATION

# **United States TSCA Inventory**

All components of this product have been verified for the inventory listing requirements of the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

# Canada DSL Inventory

All components of this product have been verified for inclusion on the Domestic Substance List (DSL).

### **WHMIS Classification**

D2B

This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

### SARA Title III Sect. 311/312 Categorization

Immediate (Acute)

# 16. OTHER INFORMATION

### **NFPA Ratings**

NFPA Code for Flammability - 0

NFPA Code for Health - 2

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards - None

## **HMIS Ratings**

HMIS Code for Flammability - 0

HMIS Code for Health - 2

HMIS Code for Physical Hazard - 0

HMIS Code for Personal Protection - See Section 8

\*Chronic

# Legend

ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstracts Service ECHA: European Chemicals Agency

IARC: International Agency for Research on Cancer

N/A: Denotes no applicable information found or available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value



# 16. OTHER INFORMATION

# **Information Source and References**

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

Prepared By: EnviroNet LLC.

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