

## Safety Data Sheet

**BS3 Crosslinker****SECTION 1: Identification****1.1 Product identifier**

Product name	<a href="#">BS3 Crosslinker</a>
Product number	13306
Brand	CovaChem
Substance name	BS3 Crosslinker
CAS no.	82436-77-9

**1.2 Other means of identification**

BS3; Bis-(Sulfosuccinimidyl) suberate; sulfosuccinimidyl suberate; 1,8-bis(2,5-dioxo-3-sulfo-1-pyrrolidinyl) ester

**1.3 Recommended use of the chemical and restrictions on use**

For laboratory use only. Intended for use as a research laboratory chemical or in the manufacturing of substances.

**1.4 Supplier's details**

Name	CovaChem, LLC.
Address	6260 East Riverside Blvd Suite 119 Loves Park, IL 61111 United States
Telephone	815-315-1271
Fax	815-315-1272
email	info@covachem.com

**1.5 Emergency phone number(s)**

PERS Professional Emergency Response Service  
Company Code 11814  
1-800-633-8253 (U.S. & Canada)  
1-801-629-0667 (International)

**SECTION 2: Hazard identification****General hazard statement**

Causes skin irritation.  
Respiratory irritant.  
Skin irritant.

**2.1 Classification of the substance or mixture**

- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Eye damage/irritation (chapter 3.3), Cat. 2
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

**2.2 GHS label elements, including precautionary statements****Pictogram**

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### Signal word

### Warning

#### Hazard statement(s)

H315  
H319  
H335  
H336

Causes skin irritation  
Causes serious eye irritation  
May cause respiratory irritation  
May cause drowsiness or dizziness

#### Precautionary statement(s)

P264  
P280  
P302+P352  
P332+P313  
P362+P364  
P305+P351+P338

P337+P313  
P261  
P271  
P304+P340  
P312  
P403+P233  
P405  
P501

Wash thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
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.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/doctor if you feel unwell.  
Store in a well ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of contents/container in accordance with local regulations.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Substance name	BS3 Crosslinker
CAS no.	82436-77-9
Formula	C <sub>16</sub> H <sub>18</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>14</sub> S <sub>2</sub>
Molecular weight	572.43
Other names / synonyms	BS3 Crosslinker (98 - 100 %); BS3; Bis-(Sulfosuccinimidyl) suberate; sulfosuccinimidyl suberate; 1,8-bis(2,5-dioxo-3-sulfo-1-pyrrolidinyl) ester
Impurities and stabilizing additives	No additional ingredients present known to the supplier, which are classified as hazardous to health or environment, which would require reporting herein.

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## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice	In the event of exposure, move away from the dangerous area, and contact a physician immediately. Show this safety data sheet to physician, as a reference.
If inhaled	Move affected person to fresh air. Give artificial respiration if person is not breathing. Contact a physician immediately.
In case of skin contact	Wash and scrub thoroughly with soap and water. Contact a physician.

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In case of eye contact	Without delay, flush and rinse the inside and outside of the eyelid with copious amounts of water. Ensure that contact lenses, if present are removed. Contact a physician immediately.
If swallowed	Do not give anything by mouth if person is unconscious. Wash mouth with water. If material has been swallowed, give small amounts of water to the affected person. Contact a physician immediately.

#### 4.2 Most important symptoms/effects, acute and delayed

The most important symptoms and effects are described in section 2 and section 11.

#### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Data not available.

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## SECTION 5: Fire-fighting measures

#### 5.1 Suitable extinguishing media

Water spray, dry chemical, carbon dioxide or alcohol resistant foam are all suitable extinguishing media.

#### 5.2 Specific hazards arising from the chemical

No specific fire or explosion hazards known, although nitrogen oxides (NO<sub>x</sub>), sulfur oxides, sodium oxides and carbon oxides may form in the event of a fire.

#### 5.3 Special protective actions for fire-fighters

Firefighters should wear a self-contained breathing apparatus (SCBA) with full face piece and other appropriate protective equipment.

##### Further information

Potentially Hazardous Thermal Decomposition Products Formed In The Event of Fire Include:

- Carbon monoxide
- Carbon dioxide
- Sulfur oxides
- Nitrogen oxides (NO<sub>x</sub>)
- Sodium Oxides

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## SECTION 6: Accidental release measures

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

Wear appropriate personal protective equipment. Avoid breathing dust, vapors, mist or gas. Evacuate the affected area, keeping unprotected personnel away from the area. Avoid dust creation, and do not walk through spilled material.

#### 6.2 Environmental precautions

Take adequate precautions to prevent spilled materials from entering waterways, sewers or drainage systems. Prevent further spillage of material, if possible.

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

Without creating dust, scoop the spilled contents and store in a suitable, closed container for disposal.

##### Reference to other sections

See section 13 for disposal information

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## SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

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Avoid the formation of dust or aerosols. Use in a well ventilated area. Avoid contact with skin, eyes or respiratory tract.

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

Keep stored in a tightly closed container, protected from moisture and direct sunlight.

Recommended Storage temperature: +2 to +8 °C

### Specific end use(s)

For laboratory use only. Intended for use as a research laboratory chemical or in the manufacturing of substances.

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## SECTION 8: Exposure controls/personal protection

### 8.2 Appropriate engineering controls

General good laboratory hygiene practices should be implemented when using this product.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Pictograms



#### Eye/face protection

Protective eyewear, such as safety glasses are recommended.

#### Skin protection

Handle with nitrile rubber gloves.

#### Body protection

Protect body with appropriate personal protective equipment, based on the scale of operation and all chemicals involved. For small scale applications, a lab coat is the minimum recommended body personal protective equipment.

#### Respiratory protection

Use of a dust respirator is recommended (ie. type N95).

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	White solid.
Odor	not available
Odor threshold	not available
pH	not available
Melting point/freezing point	> 300 °C
Initial boiling point and boiling range	not available
Flash point	not available
Evaporation rate	not available
Flammability (solid, gas)	not available
Upper/lower flammability limits	not available
Upper/lower explosive limits	not available
Vapor pressure	not available
Vapor density	not available
Relative density	not available
Solubility(ies)	Soluble in hot or cold water at 10 mg / mL
Partition coefficient: n-octanol/water	not available

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Auto-ignition temperature	not available
Decomposition temperature	not available
Viscosity	not available
Explosive properties	not available
Oxidizing properties	not available

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No test data available regarding the reactivity of this product or its ingredients.

#### 10.2 Chemical stability

Product is stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Data Not Available

#### 10.4 Conditions to avoid

Data Not Available

#### 10.5 Incompatible materials

Strong oxidizers, strong bases, acid anhydrides, acid chlorides

#### 10.6 Hazardous decomposition products

- Carbon monoxide
- Carbon dioxide
- Sulfur oxides
- Nitrogen oxides (NO<sub>x</sub>)
- Sodium Oxides

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### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

Data Not Available

##### Skin corrosion/irritation

Data Not Available

##### Serious eye damage/irritation

Data Not Available

##### Respiratory or skin sensitization

Data Not Available

##### Germ cell mutagenicity

Data Not Available

##### Carcinogenicity

Data Not Available

##### Reproductive toxicity

Data Not Available

##### Summary of evaluation of the CMR properties

Data Not Available

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### **STOT-single exposure**

Inhalation - May cause respiratory irritation

### **STOT-repeated exposure**

Data Not Available

### **Aspiration hazard**

Data Not Available

### **Additional information**

Data Not Available

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## **SECTION 12: Ecological information**

### **Toxicity**

Data Not Available

### **Persistence and degradability**

Data Not Available

### **Bioaccumulative potential**

Data Not Available

### **Mobility in soil**

Data Not Available

### **Results of PBT and vPvB assessment**

Data Not Available

### **Other adverse effects**

Data Not Available

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## **SECTION 13: Disposal considerations**

### **Disposal of the product**

Generation of waste should be kept to a minimum when possible. Any waste generated should be recycled when possible. Please dispose any unused or used materials in accordance with applicable national, regional and local laws and regulations.

### **Disposal of contaminated packaging**

Dispose of in the same way as disposing of unused product.

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## **SECTION 14: Transport information**

### **DOT (US)**

Not DOT Regulated

### **IMDG**

Not IMDG Regulated

### **IATA**

Not IATA Regulated

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## **SECTION 15: Regulatory information**

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### 15.1 Safety, health and environmental regulations specific for the product in question

#### SARA 302 Components

No component in this product is subject to the reporting requirements of SARA, Title III, Section 302

#### SARA 311/312 Hazards

Acute Health Hazard

#### SARA 313 Components

No chemical present in this material are subject to the reporting requirements of SARA Title III, Section 313

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act

#### New Jersey Right To Know Components

No components are subject to the New Jersey Right to Know Act

#### Pennsylvania Right To Know Components

No components are subject to the Pennsylvania Right to Know Act

#### California Prop. 65 Components

This material does not contain any chemicals known to the state of California to cause reproductive harm or birth defects.

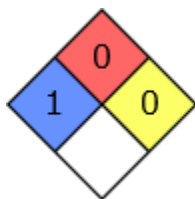
### 15.2 Chemical Safety Assessment

The customer shall determine the appropriate level of personal protective equipment to use.

#### HMIS Rating

BS3 Crosslinker	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

#### NFPA Rating



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## SECTION 16: Other information

### 16.1 Further information/disclaimer

The information represented in this Safety Data Sheet is believed to be correct and is based on the current state of our knowledge. This document or any other document does not represent or suggest any type of warranty or guarantee of the product properties or characteristics of this material. CovaChem, LLC and its affiliates shall not be held liable for any damages that result from contact with the above product or handling this product or any others.