

## SAFETY DATA SHEET

Revision Date 06/03/2015

**1. PRODUCT AND COMPANY IDENTIFICATION**

- 1.1 Product identifiers**  
 Product name : Boc-Methioninol  
 Product Number : BM4418  
 Brand : Advanced ChemTech  
 CAS-No. : 51372-93-1
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
 Identified uses : Laboratory chemicals, Manufacture of substances
- 1.3 Details of the supplier of the safety data sheet**  
 Company : Creosalus, Inc.  
 5609 Fern Valley Rd, Louisville, KY 40228 USA  
 Telephone : +1 800-456-1403  
 Fax : +1 502-968-1000
- 1.4 Emergency telephone number** : +1 800-424-9300 Chemtrec

**2. HAZARDS IDENTIFICATION**

- 2.1 Classification of the substance or mixture:**  
**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**  
 Acute toxicity, Oral (Category 3), H301  
 For the full text of the H-Statements mentioned in this Section, see Section 16.
- 2.2 GHS Label elements, including precautionary statements:**  
 Pictogram



- Signal word : Danger
- Hazard statement(s)**  
 H301 : Toxic if swallowed.
- Precautionary statement(s)**  
 P264 : Wash skin thoroughly after handling.  
 P270 : Do not eat, drink or smoke when using this product.  
 P301 + P310 + P330 : IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.  
 P405 : Store locked up.  
 P501 : Dispose of contents/ container to an approved waste disposal plant.
- 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

- 3.1 Substances**  
 Formula : C<sub>10</sub>H<sub>21</sub>NO<sub>3</sub>S  
 Molecular Weight : 235.34/mole  
 CAS-No. : 51372-93-1
- Hazardous Components**

Component	Classification	Concentration
Boc-L-Methioninol	Acute Tox. 3; H301	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16

**4. FIRST AID MEASURES**

- General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
- 4.1 Description of first aid measures**  
**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.  
**In case of skin contact:** Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician  
**In case of eye contact:** Flush eyes with water as a precaution.  
**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician
- 4.2 Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11
- 4.3 Indication of any immediate medical attention and special treatment needed:** No data available

**5. FIREFIGHTING MEASURES**

- 5.1 Extinguishing media**  
**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture:** Nature of decomposition products not known.
- 5.3 Advice for firefighters:** Wear self contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information:** No data available

**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal Precautions, protective equipment, and emergency procedure:** Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
- 6.2 Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains

- 6.3 **Methods and materials for containment and cleaning up:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 **Reference to other sections:** For disposal see section 13.

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## 7. HANDLING AND STORAGE

- 7.1 **Precautions for safe handling:** Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
- 7.2 **Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
- 7.3 **Specific end use(s):** Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Control parameters**  
**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.
- 8.2 **Exposure controls**  
**Appropriate engineering controls:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product  
**Personal protective equipment**  
**Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).  
**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.  
**Body Protection:** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  
**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).  
**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 **Information on basic physical and chemical properties**
- |   |                    |
|---|--------------------|
| a) Appearance                                   | Form: White powder |
| b) Odor   | no data available  |
| c) Odor Threshold                               | no data available  |
| d) pH   | no data available  |
| e) Melting point/freezing point                 | no data available  |
| f) Initial boiling point and boiling range      | no data available  |
| g) Flash point                                  | no data available  |
| h) Evaporation rate                             | no data available  |
| i) Flammability (solid, gas)                    | no data available  |
| j) Upper/lower flammability or explosive limits | no data available  |
| k) Vapor pressure                               | no data available  |
| l) Vapor density                                | no data available  |
| m) Relative density                             | no data available  |
| n) Water solubility                             | no data available  |
| o) Partition coefficient: n- octanol/water      | no data available  |
| p) Auto-ignition temperature                    | no data available  |
| q) Decomposition temperature                    | no data available  |
| r) Viscosity                                    | no data available  |
| s) Explosive properties                         | no data available  |
| t) Oxidizing properties                         | no data available  |
- 9.2 **Other safety information:** no data available

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## 10. STABILITY AND REACTIVITY

- 10.1 **Reactivity:** No data available
- 10.2 **Chemical stability:** Stable under recommended storage conditions.
- 10.3 **Possibility of hazardous reactions:** No data available
- 10.4 **Conditions to avoid:** No data available
- 10.5 **Incompatible materials:** Strong oxidizing agents
- 10.6 **Hazardous decomposition products:** Other decomposition products - no data available. In the event of fire: see section 5

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## 11. TOXICOLOGICAL INFORMATION

- 11.1 **Information on toxicological effects**  
**Acute toxicity:** No data available  
**Inhalation:** No data available  
**Dermal:** No data available  
**Skin corrosion/irritation:** No data available  
**Serious eye damage/eye irritation:** No data available  
**Respiratory or skin sensitization:** No data available  
**Germ cell mutagenicity:** No data available  
**Carcinogenicity:**  
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** No data available

**Specific target organ toxicity - single exposure:** No data available

**Specific target organ toxicity - repeated exposure:** No data available

**Aspiration hazard:** No data available

**Additional Information:** RTECS: Not available, to the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## 12. ECOLOGICAL INFORMATION

12.1 **Toxicity:** No data available

12.2 **Persistence and degradability:** No data available

12.3 **Bioaccumulative potential:** No data available

12.4 **Mobility in soil:** No data available

12.5 **Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 **Other adverse effects:** No data available

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## 13. DISPOSAL CONSIDERATIONS

13.1 **Waste treatment methods**

**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber

**Contaminated packaging:** Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

### DOT (US)

UN number: 2811 Class: 6.1 Packing group: III

Proper shipping name: Toxic solids, organic, n.o.s. (Boc-L-Methioninol)

Reportable Quantity (RQ):

Poison Inhalation Hazard: No

### IMDG

UN number: 2811 Class: 6.1 Packing group: III

EMS-No: F-A, S-A

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Boc-L-Methioninol)

### IATA

UN number: 2811 Class: 6.1 Packing group: III P

Proper shipping name: Toxic solid, organic, n.o.s. (Boc-L-Methioninol)

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## 15. REGULATORY INFORMATION

**SARA 302 Components:** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Massachusetts Right to Know Components:** No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right to Know Components

Boc-Methioninol	CAS-No.	Revision Date
	51372-93-1	

### New Jersey Right to Know Components

Boc-Methioninol	CAS-No.	Revision Date
	51372-93-1	

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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## 16. OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
H301	Toxic if swallowed.

### HMIS Rating

Health hazard:	2
Chronic Health Hazard:	

Flammability:	0
Physical Hazard	0

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

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Fire Hazard:	0
Reactivity Hazard:	0

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. CreoSALUS, Inc. shall not be liable for any damage resulting in the handling or from contact with the above product.