

# Safety Data Sheet

## 1. Product and Company Identification

### 1) Product identification

*Product Name:* 2-BUTYL-4-CHLORO-1H-IMIDAZOLE-5-CARBOXYLIC ACID  
*Catalog Number:* F30803  
*CAS Number:* 149968-28-5

### 2) Recommended use of the chemical and restrictions on use

*Identified uses:* Laboratory chemicals, Manufacture of substances

### 3) Details of the supplier of the safety data sheet

*Company:* AstaTech, Inc.  
Keystone Business Park  
2525 Pearl Buck Road  
Bristol, PA 19007  
USA

*Tel:* +1-215-785-3197

*Fax:* +1-215-785-2656

## 2. Hazard Identification

### 1) GHS pictogram



### 2) GHS signal word

Warning

### 3) GHS hazard statement(s)

*H302* Harmful if swallowed  
*H315* Causes skin irritation  
*H319* Causes serious eye irritation  
*H335* May cause respiratory irritation

### 4) GHS precautionary statement(s)

*P261* Avoid breathing dust/fume/gas/mist/vapours/spray.  
*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.  
*P305+P351+P338* IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 3. Composition/Information on Ingredients

#### Substances

*Component:* 2-BUTYL-4-CHLORO-1H-IMIDAZOLE-5-CARBOXYLIC ACID  
*CAS Number:* 149968-28-5  
*Formula:* C<sub>8</sub>H<sub>11</sub>ClN<sub>2</sub>O<sub>2</sub>  
*Molecular Weight:* 202.64  
*Concentration:* <=100%

### 4. First Aid Measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### 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.

### 5. Fire-fighting Measures

#### 1) Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 2) Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

#### 3) Advice for firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

## 6. Accidental Release Measures

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

Use personal protective equipment. 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.

### 2) Environmental precautions

Do not let product enter drains.

### 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.

### 4) Reference to other sections

For disposal see section 13.

## 7. Handling and Storage

### 1) Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

For precautions see section 2.

### 2) Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Storage Conditions: 2-8 °C

## 8. Exposure Controls/Personal Protection

### 1) Exposure limits

No data available

### 2) Appropriate engineering controls

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

### 3) Personal protective equipment

*Respiratory protection:* Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

*Hand protection:* Nitrile gloves.

*Eye protection:* Safety glasses.  
*Skin and body protection:* Lab coat.

## 9. Physical and Chemical Properties

<i>Appearance:</i>	White to Yellow Solid
<i>Odor:</i>	No data available
<i>Odor threshold:</i>	No data available
<i>pH:</i>	No data available
<i>Melting point/freezing point:</i>	No data available
<i>Initial boiling point and boiling range:</i>	No data available
<i>Flash point:</i>	No data available
<i>Evaporation rate:</i>	No data available
<i>Flammability:</i>	No data available
<i>Upper/lower flammability or explosive limits:</i>	No data available
<i>Vapor pressure:</i>	No data available
<i>Vapor density:</i>	No data available
<i>Relative density:</i>	No data available
<i>Solubility(ies):</i>	No data available
<i>Partition coefficient: n-octanol/water:</i>	No data available
<i>Auto-ignition temperature:</i>	No data available
<i>Decomposition temperature:</i>	No data available
<i>Viscosity:</i>	No data available

## 10. Stability and Reactivity

### 1) Reactivity

No data available

### 2) Chemical stability

Stable under recommended storage conditions

### 3) Possibility of hazardous reactions

No data available

### 4) Conditions to avoid

No data available

### 5) Incompatible materials

Strong oxidizing agents

### 6) Hazardous decomposition products

No data available

## 11. Toxicological Information

<i>Acute toxicity:</i>	No data available
<i>Skin corrosion/irritation:</i>	No data available
<i>Serious eye damage/eye irritation:</i>	No data available
<i>Respiratory or skin sensitization:</i>	No data available
<i>Germ cell mutagenicity:</i>	No data available
<i>Carcinogenicity</i>	
<i>IARC:</i>	No data available
<i>ACGIH:</i>	No data available
<i>NTP:</i>	No data available
<i>OSHA:</i>	No data available
<i>Reproductive toxicity:</i>	No data available
<i>Routes of Exposure:</i>	Inhalation, Eye contact, Ingestion, Skin contact
<i>Specific target organ toxicity:</i>	No data available
<i>Aspiration hazard:</i>	No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. Ecological Information

<i>Ecotoxicity</i>	
<i>Fish:</i>	No data available
<i>Crustacea:</i>	No data available
<i>Algae:</i>	No data available
<i>Persistence and degradability:</i>	No data available
<i>Bioaccumulative potential (BCF):</i>	No data available
<i>Mobility in soil:</i>	No data available
<i>Partition coefficient:</i>	No data available
<i>n-octanol/water (log Pow):</i>	No data available
<i>Soil adsorption (Koc):</i>	No data available
<i>Henry`s Law:</i>	No data available
<i>constant (PaM3/mol):</i>	No data available

## 13. Disposal Information

### 1) Disposal of product

It is the generator`s responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator

equipped with an afterburner and scrubber system. The product should not be allowed to enter the environment, drains, water ways, or the soil. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**2) Disposal of container**

Dispose of as unused product. Do not re-use empty containers.

**3) Other considerations**

Observe all federal, state and local regulations when disposing of the substance.

**14. Transport Information**

*UN Number:* Not dangerous goods

*Class:* Not dangerous goods

*Packing Group:* Not dangerous goods

**Proper shipping name:** 2-BUTYL-4-CHLORO-1H-IMIDAZOLE-5-CARBOXYLIC ACID

**15. Regulatory Information**

No data available

**16. Other Information**

*Revision:* 4

*Revision date:* 5/15/2020

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. AstaTech, Inc. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.