



# SAFETY DATA SHEET

## CPI-GEORGIA

Isotopeshop.com

Version 1.0

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

#### 1.1 Product identifiers

Product name: Ammonium-(15-N) chloride  
Product Number: NSC-101  
Brand: CPI Georgia  
CAS-No.: 39466-62-1  
Formula:  $^{15}\text{NH}_4\text{Cl}$

#### 1.2 Recommended use of the chemical and restrictions on use

For research use only. Not intended for diagnostic or therapeutic use.

#### 1.3 Details of the supplier of the safety data sheet

Company: CPI Georgia  
46 Petre Kavtaradze Street,  
Tbilisi, Georgia, 0186

Telephone: +995-322-303-495  
Fax: +995-322-303-495  
E-mail address: Info@cpigeorgia.ge

### Section 2: Hazards identification

#### 2.1 Classification

Acute toxicity, Oral, 4 H302  
Eye irritation, 2 H319  
Chronic aquatic toxicity, 2 H411

#### 2.2 GHS Label elements, including precautionary statements

Pictogram:



Signal word: Warning

Hazard statement(s):  
H302 - Harmful if swallowed.  
H319 - Causes serious eye irritation.  
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statement(s):  
P264 - Wash skin thoroughly after handling.  
P270 - Do not eat, drink, or smoke when using this product.  
P273 - Avoid release to the environment.

P280 - Wear eye protection/ face protection.  
 P301 + P312 - If swallowed: Call a doctor a POISON CENTER if you feel unwell.  
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P330 - Rinse mouth.  
 P337+P313 - If eye irritation persists: Get medical advice/attention.  
 P391 - Collect spillage.  
 P501 - Dispose of contents/container to Comply with applicable regulations

### 2.3 Other Hazards

No additional information available.

## Section 3: Composition/ Information on Ingredients

### 3.1 Substances

Formula: H4Cl15N  
 Molecular weight: 54.48 g/mol  
 CAS-No.: 39466-62-1

| Chemical Name            | CAS#       | Weight-% | GHS-US classification   |
|--------------------------|------------|----------|---|
| Ammonium-(15-N) chloride | 39466-62-1 | >99%     | Acute toxicity, Oral, 4, H302<br>Eye irritation, 2, H319<br>Chronic aquatic toxicity, 2, H411 |

## Section 4: First-Aid Measures

### 4.1 First Aid Measures

General advice: If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin Contact: Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is not required. If skin irritation persists, call a physician.

Inhalation: Remove to fresh air Call a physician If breathing is irregular or stopped, administer artificial respiration

|                                     |  |
|-------------------------------------|--|
| Ingestion:                          | Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation Immediate medical attention is not required Move to fresh air in case of accidental inhalation of vapors If symptoms persist, call a physician.<br>Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician. |
| Self-protection of the first aider: | Use personal protective equipment as required.   |

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms No information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

Note to physicians Treat symptomatically.

**Section 5: Fire-Fighting 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**

No data available.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

No data available.

**Section 6: Accidental Release Measures****6.1 Personal precautions, protective equipment, and emergency procedures**

|                       |  |
|-----------------------|--|
| Personal precautions: | Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
|-----------------------|--|

**6.2 Environmental precautions**

|                            |   |
|----------------------------|---|
| Environmental precautions: | Prevent entry into waterways, sewers, basements, or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information. |
|----------------------------|---|

**6.3 Methods and material for containment and cleaning up**

|                          |   |
|--------------------------|---|
| Methods for containment: | Prevent further leakage or spillage if safe to do so.   |
| Methods for cleaning up: | Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly |

labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Take precautionary measures against static discharges.

## Section 7: Handling and Storage

### 7.1 Precautions for safe handling

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

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## Section 8: Exposure Controls/Personal Protection

### 8.1 Control parameters

Exposure Guidelines:

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 8.2.1 Personal protective equipment

##### Eye/face protection

Safety glasses with side-shields conforming to EN166 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

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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. Discharge into the environment must be avoided.

**Section 9: Physical and Chemical Properties****9.1 Information on basic physical and chemical properties**

|                 |                          |
|-----------------|--------------------------|
| Physical State: | Solid                    |
| Appearance:     | powder or crystalline    |
| Odor:           | No information available |

| <b><u>Property</u></b>       | <b><u>Values</u></b>     |
|------------------------------|--------------------------|
| pH                           | No information available |
| Melting point/freezing point | 340 °C                   |
| Boiling point                | No information available |
| Flash point                  | No information available |
| Liquid Density               | 1.527 g/cm <sup>3</sup>  |
| Evaporation rate             | No information available |
| Upper flammability limits    | No information available |
| Lower flammability limits    | No information available |
| Vapor pressure               | 1 mmHg                   |
| Vapor density                | No information available |
| Specific gravity             | No information available |
| Water solubility             | No information available |
| Solubility in other solvents | No information available |
| Partition coefficient        | No information available |
| Autoignition temperature     | No information available |
| Decomposition temperature    | No information available |
| Kinematic viscosity          | No information available |
| Explosive properties         | No information available |
| Oxidizing properties         | No information available |

**Section 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 acids, Strong bases.

**10.6 Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride gas.

Other decomposition products - No data available.

In the event of fire: see section 5.

**Section 11: Toxicological Information****11.1 Information on likely routes of exposure**

|               |                    |
|---------------|--------------------|
| Inhalation:   | No data available. |
| Eye contact:  | No data available. |
| Skin Contact: | No data available. |

**11.2 Information on toxicological effects**

|           |                           |
|-----------|---------------------------|
| Symptoms: | No information available. |
|-----------|---------------------------|

**11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                   |                          |
|-------------------|--------------------------|
| Chronic Toxicity: | Avoid repeated exposure. |
|-------------------|--------------------------|

**Numerical measures of toxicity - Product Information**

|                         |                          |
|-------------------------|--------------------------|
| Unknown acute toxicity: | No information available |
|-------------------------|--------------------------|

The following values are calculated based on chapter 3.1 of the GHS document

|               |           |
|---------------|-----------|
| ATEmix (oral) | 500 mg/kg |
|---------------|-----------|

**Section 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**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

**Section 13: Disposal Considerations**

|                         |   |
|-------------------------|---|
| Disposal of wastes:     | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated packaging: | Do not reuse container.   |
| Other Information:      | Waste codes should be assigned by the user based on the application for which the product was used. |

**Section 14: Transport Information****DOT (US)**

UN number: 3077 Class: 9 Packing group: III

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Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Ammonium 15N chloride,)

Reportable Quantity (RQ): 5000 lbs.

Poison Inhalation Hazard: No

**IMDG**

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Ammonium 15N chloride,)

Marine pollutant: yes

**IATA**

UN number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Ammonium 15N chloride,)

**Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

**Section 15: Regulatory Information****SARA 302 Components**

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

**SARA 313 Components**

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.

**SARA 311/312 Hazards**

Acute Health Hazard

**Section 16: Other Information****Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.