



SAFETY DATA SHEET

CPI-GEORGIA

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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:	Potassium nitrate - ^{15}N
Product Number:	NSC-105
Brand:	CPI Georgia
CAS-No.:	57654-83-8
Formula:	K^{15}NO_3

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 according to Regulation (EC) No 1272/2008

Oxidizing solids (Category 3), H272

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:

Warning

Hazard statement(s):

H272 - May intensify fire; oxidizer.

Precautionary statement(s):

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

2.3 Other Hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 3: Composition/ Information on Ingredients**3.1 Substances**

Formula: $K^{15}NO_3$
 Molecular weight: 102.10 g/mol
 CAS-No.: 57654-83-8

Chemical Name	CAS#	Weight-%
Potassium nitrate – ¹⁵ N	57654-83-8	>99%

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 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.

Ingestion: 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.
 Store under inert gas. 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:	Crystalline
Odor:	No information available

Property**Values**

pH	5.5 - 8 at 50 g/l at 20 °C
Melting point/freezing point	334 °C
Boiling point	No information available
Flash point	No information available
Liquid Density	1.527 g/cm ³
Evaporation rate	No information available
Upper flammability limits	No information available

Lower flammability limits	No information available
Vapor pressure	1 mmHg
Vapor density	2.109 g/cm ³
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	The substance or mixture is classified as oxidizing with the category 3.
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 _x).	
Other decomposition products - No data available.	
In the event of fire: see section 5.	
Section 11: Toxicological Information	
11.1 Information on toxicological effects	
Acute toxicity	
LD50 Oral - Rat - 3.750 mg/kg	
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.	
Reproductive toxicity	
No data available	
Specific target organ toxicity - single exposure	
No data available	
Specific target organ toxicity - repeated exposure	
No data available	

<p>Aspiration hazard No data available</p> <p>Additional Information RTECS: Not available</p>	
<p>Section 12: Ecological Information</p>	
<p>12.1 Toxicity No data available.</p> <p>12.2 Persistence and degradability No data available.</p> <p>12.3 Bioaccumulative potential No data available.</p> <p>12.4 Mobility in soil No data available.</p> <p>12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.</p> <p>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.</p>	
<p>Section 13: Disposal Considerations</p>	
<p>Disposal of wastes:</p> <p>Contaminated packaging:</p> <p>Other Information:</p>	<p>Disposal should be in accordance with applicable regional, national and local laws and regulations.</p> <p>Do not reuse container.</p> <p>Waste codes should be assigned by the user based on the application for which the product was used.</p>
<p>Section 14: Transport Information</p>	
<p>14.1 UN number ADR/RID: 1486 IMDG: 1486 IATA: 1486</p> <p>14.2 UN proper shipping name ADR/RID: POTASSIUM NITRATE IMDG: POTASSIUM NITRATE IATA: Potassium nitrate</p> <p>14.3 Transport hazard class(es) ADR/RID: 5.1 IMDG: 5.1 IATA: 5.1</p> <p>14.4 Packaging group ADR/RID: III IMDG: III IATA: III</p> <p>14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA: no</p> <p>14.6 Special precautions for user No data available</p>	
<p>Section 15: Regulatory Information</p>	
<p>15.1 Safety, health and environmental regulations/legislation specific for the</p>	

substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

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.