

SAFETY DATA SHEET

POTASSIUM NITRATE

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: 905-466-3832
Chemical Name: Potassium Nitrate
Synonym: N/A
Catalog Number: POT002

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification
Oxidizing solids (Category 3)

PICTOGRAM:



SIGNAL WORD: WARNING

HAZARD STATEMENTS:
H272 May intensify fire; oxidizer.

PRECAUTIONARY STATEMENTS:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220 Keep away from clothing and other combustible materials.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects:

Inhalation: may be harmful if inhaled.
Skin: may be harmful if absorbed through skin
Eyes: may cause eye irritation
Ingestion: may be harmful if swallowed

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Potassium Nitrate	7757-79-1	>99%

Molecular Formula: KNO₃
Molecular Weight: 101.10

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with plenty of water. Consult a physician.
Skin: In case of contact, flush area immediately with water. Get medical aid if irritation persists.
Inhalation: Remove victim to fresh air. If breathing becomes difficult, give oxygen. Consult a physician..
Ingestion: Wash mouth with water. Do NOT induce vomiting. Consult a physician if you feel unwell.

SECTION 5 FIRE FIGHTING MEASURES

Flammability: not flammable
Flash Point: not determined
Autoignition Temperature: not determined
Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.
Explosion Data: Not available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions:
Ventilate the area. Wear appropriate protective equipment. Avoid contact with skin, eyes and clothing.
Methods for containment and clean up:
If safe to do so, contain further leakage. Sweep and place in a closed container. Dispose according to local regulations.

SECTION 7 HANDLING AND STORAGE

Handling: Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.
Storage Conditions: Room temperature. Keep cool and dry.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:
ACGIH, NIOSH, OSHA, none listed
Use adequate ventilation. Avoid dust generation..
Personal protective Equipment: Wear appropriate safety glasses and protective gloves/clothing. Use approved NIOSH respirator.
Engineering Measures: eye wash stations, ventilation systems, showers
Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice. wash hands before and after handling product.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder
Odor Threshold: : no information found

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Melting Point: 334C
Boiling Point: 400C
Specific Gravity: 2.11
Vapor Density: no information found
Vapor pressure: no information found
Water Solubility: soluble in water
pH: 4.5-8.5 (5% solution)
Flammability: No
Flash point: N/A
Ignition temperature: no information found
Autoignition temperature: no information found
Lower explosion limit: no information found
Upper explosion limit: no information found

IATA

UN number: 1486 Class: 5.1 Packing group: III
Proper shipping name: Potassium nitrate

SECTION 15 REGULATORY INFORMATION

Canada:
WHMIS:
C, Oxidizer

SECTION 16 ADDITIONAL INFORMATION

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable at normal room temperature and pressure
Conditions to avoid: dust generation, heat sources, open flames.
Incompatibility: strong oxidizing agents, reducing agents.
Hazardous Decomposition Products: fumes of carbon monoxide, carbon dioxide, nitrogen oxides
Hazardous Polymerization: Has not been reported

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50/LC50:
No data found

Epidemiology: No data available
Teratogenicity: No data available
Reproductive Effects: No data available
Neurotoxicity: No data available
Mutagenicity: No data available
Carcinogenicity: No data available

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:
Toxic to rainbow trout, toxic to Daphnia

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Care should be exercised when burning in chemical incinerator. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

Shipping Information:

TDG Canada
UN number: 1486 Class: 5.1 Packing group: III
Proper shipping name: POTASSIUM NITRATE

IMDG:
UN number: 1486 Class: 5.1 Packing group: III
Proper shipping name: POTASSIUM NITRATE

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