



Safety Data Sheet

Issue Date: 10-Feb-2004

Revision Date: 12-Apr-2017

Version 3

1. IDENTIFICATION

Product Identifier

Product Name Gas Cartridge
Large Gas Cartridge
APHIS-Only Gas Cartridge
APHIS-Only Large Gas Cartridge

Other Means of Identification

SDS # USDA-0002

Synonyms Gas Cartridge
Large Gas Cartridge

Registration Number(s) EPA Reg. # 56228-2: APHIS-Only Gas Cartridge
EPA Reg. # 56228-21: APHIS-Only Large Gas Cartridge
EPA Reg. # 56228-61: Gas Cartridge
EPA Reg. # 56228-62: Large Gas Cartridge

Recommended Use of the Chemical and Restrictions on Use

Recommended Use This product is an EPA-approved pesticide for the control of certain burrowing rodents and denning mammal pests. The fused cartridge, when ignited, produces toxic carbon monoxide gas.

Uses Advised Against Any use(s) not strictly adhering to the Directions for Use on the EPA-approved labels is strongly advised against and is a violation of federal law.

Details of the Supplier of the Safety Data Sheet

Registrant Address	Manufacturer Address
United States Department of Agriculture Animal & Plant Health Inspection Service 4700 River Road Riverdale, MD 20737	Pocatello Supply Depot 238 E. Dillon Street Pocatello, ID 83201-6623

Emergency Telephone Number

Company Phone Number 1-208-236-6920
Emergency Telephone (24 hr) INFOTRAC: 1-352-323-3500 (International)
INFOTRAC: 1-800-535-5053 (North America)
National Pesticide Information Center Hotline: 1-800-858-7378
Poison Control Center: 1-800-222-1222

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: After fuse ignites cartridge, toxic carbon monoxide gas is produced. This product is an oxidizer and may intensify a fire. This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Appearance Gray-colored, hard-compacted granular material in a cardboard tube

Physical State Granular

Odor Practically odorless

Classification

Oxidizing Solids	Category 3
Eye Irritation	Category 2A

Hazards Not Otherwise Classified (HNOC)

Fuses are very flammable. Cartridges are combustible if heated.

Signal Word

Warning

Hazard Statements

May intensify fire; oxidizer.
Causes serious eye irritation.

**Precautionary Statements - Prevention**

Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
Keep/Store away from clothing/heat/combustible materials.
Take any precaution to avoid mixing with combustibles/heat.
Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

IN CASE OF FIRE: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Precautionary Statements - Disposal

Soak in water, crush, and dispose of contents/container in an approved waste disposal plant or landfill. Alternately, if acceptable under local, state, and federal regulations, soak in water, crush, and bury in at least six inches of loose soil.

WHMIS Classification

This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the SDS contains all the information required by these regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Gas Cartridge
Large Gas Cartridge

Chemical Name	CAS No	Weight-%
Sodium Nitrate, Prills	7631-99-4	53.0
Charcoal, #10 hardwood, granular (Carbon)	7440-44-0	28.0

Chemical Additions Other ingredients make up 19.0% of this product.
Molecular Weight Sodium nitrate: 84.99 g/mol
Charcoal (carbon): 12.01 g/mol
Molecular Formula Sodium nitrate: NaNO₃
Charcoal (carbon): C
EC-No. Sodium nitrate: 231-554-3
Charcoal (carbon): 231-153-3

4. FIRST-AID MEASURES

First Aid Measures

General Advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment. Immediately call a poison center or doctor/physician if you feel unwell.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
Skin Contact	Wash off with soap and plenty of water. If irritation occurs, consult a physician.
Inhalation	If inhaled, and person has poisoning symptoms, transfer victim to fresh air. Have victim lie down and keep warm. If respiration has stopped, use artificial respiration. If available, pure oxygen should be given.
Ingestion	Rinse mouth as a precaution. Consult a physician. Never give anything by mouth to an unconscious person.
Self-Protection of the First Aider	Move the affected person from the hazardous exposure. If the exposed person has been overcome, notify someone else and put into effect the established rescue procedures. Do not become a casualty. Understand the facility's emergency rescue procedures and know locations of rescue equipment before the need arises.

Most Important Symptoms and Effects

Symptoms	Gas cartridges produce toxic fumes when burned. Carbon monoxide is a highly poisonous gas which is odorless and tasteless. Fumes may be harmful if inhaled. Inhalation overexposure can cause headaches, nausea, dizziness, weakness, unconsciousness, and death.
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Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to Physician	Treat symptomatically. If breathing has stopped, give pure oxygen.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray. Dry chemical. Carbon dioxide (CO₂). Soil. Alcohol-resistant foam.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Once ignited by the fuse, the cartridge will burn vigorously until completely spent, and is capable of causing severe burns to exposed skin and clothing. High temperatures and flame can ignite dry grass, leaves, and other flammable materials. **DO NOT USE CARTRIDGES IN BURROWS THAT EXTEND UNDER PORCHES OR BUILDINGS.** Fuses are very flammable. Cartridges are combustible if heated. Store in areas that protect them against contact with materials that may cause ignition.

Hazardous Combustion Products Carbon monoxide (CO). Nitrogen oxides (NO_x).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required. See Section 8: Exposure Controls/Personal Protection.

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Pick up spilled gas cartridge mechanically and replace in original container. Keep in suitable, closed containers for disposal. For waste disposal, see Section 13: Disposal Considerations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Take any precaution to avoid mixing with combustibles. Wear protective gloves/protective clothing and eye/face protection. Avoid the formation of dust. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions Keep/store away from clothing/heat/combustible materials. Avoid dust generation.

Incompatible Materials Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Appropriate Engineering Controls

Engineering Controls Handle in accordance with good industrial hygiene and safety practices.

Individual Protection Measures, Such as Personal Protective Equipment

Eye/Face Protection Wear eye/face protection.

Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory Protection In case of fire in storage areas, self-contained breathing apparatus is necessary for firefighters.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Granular	Odor	Practically odorless
Appearance	Gray-colored, hard-compacted granular material in a cardboard tube	Odor Threshold	Not determined
Color	Gray		

Note: The following physical and chemical properties are for the component: sodium nitrate, technical (>95%).

Property	Values	Remarks • Method
pH	9	100 g/L @ 20 °C (68 °F)
Melting Point/Freezing Point	306 °C (583 °F)	
Boiling Point/Boiling Range	380 °C (716 °F)	
Flash Point	No data available	
Evaporation Rate	No data available	
Flammability (Solid, Gas)	No data available	
Upper Flammability Limits	No data available	
Lower Flammability Limits	No data available	
Vapor Pressure	No data available	
Vapor Density	No data available	
Relative Density	2.26 g/cm ³	
Water Solubility	874 g/L	@ 20 °C (68 °F)
Solubility in Other Solvents	No data available	
Partition Coefficient	Log Pow: -3.80	@ 25 °C (77 °F)
Auto-ignition Temperature	No data available	
Decomposition Temperature	No data available	
Kinematic Viscosity	No data available	
Dynamic Viscosity	No data available	
Explosive Properties	No data available	
Oxidizing Properties	Oxidizer	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Heat. Metal cyanides.

Incompatible Materials

Oxidizing materials. Strong acids. Strong reducing agents. Powdered metals. Alkali metals. Alkaline earth metals. Cyanides.

Hazardous Decomposition Products

Carbon monoxide (CO). Nitrogen oxides (NO_x).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes. Causes serious eye irritation.

Skin Contact Avoid contact with skin.

Inhalation Avoid inhalation. Product emits toxic carbon monoxide when burned.

Ingestion Avoid ingestion.

Component Information

Chemical Name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Sodium Nitrate 7631-99-4	3,430 mg/kg (rat)	>5,000 mg/kg (rat)	No data available
Charcoal (Carbon) 7440-44-0	>5,000 mg/kg (rat)	No data available	No data available

Information on physical, chemical and toxicological effects

Symptoms Please see Section 4: First-Aid Measures for symptoms. Eye irritation.

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

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

Not determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Component Information

Chemical Name	Algae/aquatic plants EC ₅₀	Fish LC ₅₀	Toxicity to microorganisms	Crustacea EC ₅₀
Sodium Nitrate 7631-99-4	No data available	6,650 mg/l: 96 h, static <i>Gambusia affinis</i>	No data available	6,000 mg/l: 24 h <i>Daphnia magna</i> (water flea)
Charcoal (Carbon) 7440-44-0	No data available	No data available	No data available	No data available

Persistence/Degradability

No data available.

Bioaccumulation

No data available.

Mobility

No data available.

Other Adverse Effects

Not data available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Check with local, state, and federal regulations: if acceptable, soak in water, crush, and dispose of in approved landfill; or, bury in at least six inches of loose soil.

Contaminated Packaging Disposal should be in accordance with applicable national, regional, and local laws and regulations. Do not reuse or refill this container.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No UN1479
Proper Shipping Name Oxidizing solid, n.o.s. (contains sodium nitrate and charcoal)
Hazard Class 5.1
Packing Group III

IATA

UN/ID No UN1479
Proper Shipping Name Oxidizing solid, n.o.s. (contains sodium nitrate and charcoal)
Hazard Class 5.1
Packing Group III

IMDG

UN/ID No UN1479
Proper Shipping Name Oxidizing solid, n.o.s. (contains sodium nitrate and charcoal)
Hazard Class 5.1
Packing Group III
EmS-No F-A, S-Q

TDG

UN/ID No UN1479
Proper Shipping Name Oxidizing solid, n.o.s. (contains sodium nitrate and charcoal)
Hazard Class 5.1
Packing Group III

15. REGULATORY INFORMATION

International Inventories

Not determined.

US Federal Regulations**SARA 313**

The following component is subject to reporting levels established by SARA Title III, Section 313:

Chemical Name	CAS No
Sodium Nitrate	7631-99-4

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium Nitrate 7631-99-4	X	X	X

EPA Pesticide Registration Numbers

EPA Reg. # 56228-2: Gas Cartridge
EPA Reg. # 56228-21: Large Gas Cartridge

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

SIGNAL WORD: WARNING

PICTOGRAM: None

CHEMICAL HAZARDS: After ignition, cartridge produces toxic gases. Fumes may be harmful if inhaled.

PHYSICAL HAZARDS: Once ignited by the fuse, this cartridge will burn vigorously until completely spent and is capable of causing severe burns to exposed skin and clothes, and of igniting dry grass, leaves and other combustible material.

ENVIRONMENTAL HAZARDS: This product is highly toxic to wildlife.

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	1	1	0	OX
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	0	0	E

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Revision Note: Information updated

Disclaimer

The information provided in this 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.

End of Safety Data Sheet