

SAFETY DATA SHEET

AMMONIUM PERSULFATE

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: CANUTEC 1-888-226-8832
Chemical Name: Ammonium persulfate
Catalog Number: AMP001

SECTION 2 HAZARDS IDENTIFICATION

Emergency overview:

GHS Classification:

Oxidizing solids: Category 3
Acute toxicity: Category 4
Acute toxicity: Category 4
Skin irritation: Category 2
Eye irritation: Category 2A
Respiratory sensitization: Category 1
Skin sensitization: Category 1

Pictogram



Signal word: **Danger**

Hazard statements:

H272 May intensify fire: oxidizer
H302+H312 Harmful if swallowed or in contact with skin.
H315 Causes skin irritation
H317 May cause an allergic reaction
H319 Causes eye irritation
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 May cause respiratory irritation

Precautionary statement:

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.
P261 Avoid breathing dust.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P284 Wear respiratory protection.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor 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.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

Potential health effects:

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: Harmful if absorbed through skin
Eyes: Causes eye irritation
Ingestion: Harmful if swallowed

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Ammonium persulfate	7727-54-0	100

Molecular Formula: H8N2O8S2
Molecular Weight: 228.20 G/MOL

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
Skin: Flush area immediately with plenty of soap and water .
Inhalation: Remove victim to fresh air. If not breathing give artificial respiration .Get medical attention if symptoms persist.
Ingestion: Wash mouth with water.

SECTION 5 FIRE FIGHTING MEASURES

General Information: Always wear full protective gear in the event of a fire. Toxic gases and vapors may be generated by decomposition or combustion. Excessive dust in combination with air can create an explosive mixture.
Flammable: No
Flash Point: N/A
Autoignition Temperature: N/A
Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.
Explosion Data: container explosion may occur under fire conditions.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

Leak and Spill Procedures: Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container. Avoid generating dust.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.

Storage Conditions: Room temperature. Avoid moisture

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

TWA 0.100mg/m³, STEL 6mg/m³

Use adequate ventilation. Avoid dust generation..

Wear appropriate protective equipment to prevent eye and skin exposure.

Wear appropriate respirator to prevent lung irritation.

Personal Protection: Lab coat, safety goggles, rubber gloves.

Ventilation: Use appropriate exhaust ventilation .

Respiratory protection: use OSHA/MSHA approved dust masks.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Appearance and Odor: White, odorless

Melting Point: 120°C

Boiling Point: Decomposes

Specific Gravity/Density: 1.982 (water=1)

Water Solubility: Soluble

pH: 1-2 @ 228 g/L

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable under normal temperatures and pressure

Conditions to avoid: dust generation. Excess heat

Incompatibility: stron reducing agents, powdered metals, organic materials

Hazardous Decomposition Products: Nitrogen oxides, sulfur oxides

Hazardous Polymerization: Will not occur

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50 / LC50:

LD50 Oral-rat- 689mg/kg

Epidemiology: No data available

Teratogenicity: No data available

Reproductive Effects: No data available

Neurotoxicity: No data available

Mutagenicity: No data available

Carcinogenicity: Not listed by ACGIH, IARC, NTP, or OSHA

SECTION 12 ECOLOGICAL INFORMATION

Toxicity:

No information found.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

Shipping Information:

DOT (US):

UN Number: 1464 Class: 5.1 packing group: III

Proper shipping name: Ammonium persulfate

Marine pollutant: No

Poison Inhalation hazard: No

IMDG:

UN Number: 1464 Class: 5.1 packing group: III

Proper shipping name: Ammonium persulfate

IATA:

UN Number: 1464 Class: 5.1 packing group: III

Proper shipping name: Ammonium persulfate

SECTION 15 REGULATORY INFORMATION

US : TSCA: listed

SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Jan 1/2025

Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.