

SAFETY DATA SHEET

AMMONIUM PERCHLORATE

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name: Ammonium Perchlorate Reagent Grade
Product Code: A30407
Supplier: Chris' Rocket Supplies
387 Sullivan Circle
Pine Mountain, GA 31822
Phone: 850-554-6531
Email: sales@csrocketry.com

Emergency Phone: INFOTRAC, US: 1-352-323-3500
CHEMTREC, International: 1-800-535-5053

SECTION 2: HAZARDS IDENTIFICATION

Statements of Hazard: Oxidizing solid, Explosive, Irritant

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, inhalation or skin absorption.

Chronic Health Hazard: Not Available

HMIS Rating: H:1 F:0 P:3

NFPA Rating: H:1 F:0 R:3

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.



Pictogram:

Signal Word: Danger

Hazard Statement(s): H201 Explosive; mass explosion hazard.
H271 May cause fire or explosion; strong oxidizer. H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

Precautionary Statement(s):

P210 Keep away from heat/sparks/open flames/hot surfaces.
P220 Keep/Store away from clothing/combustible materials.
P221 Take any precaution to avoid mixing with combustibles.
P250 Do not subject to grinding/shock/friction. **P261** Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. **P302+P352** IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **P332+P313** If skin irritation occurs: Get medical advice/ attention.
P371+P380+P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

EUH044 Risk of explosion when heated under confinement.

Supplemental Statement(s):

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

<u>Chemical Name:</u>	Ammonium perchlorate
<u>Synonyms:</u>	Not Available
<u>CAS Number:</u>	7790-98-9
<u>MDL Number:</u>	MFCD00011421
<u>EINECS Number:</u>	232-235-1
<u>Beilstein Registry Number:</u>	Not Available
<u>Molecular Formula:</u>	NH ₄ ClO ₄
<u>Molecular Weight:</u>	117.49
<u>Content:</u>	95-100%
<u>Notes:</u>	Not Available

SECTION 4: FIRST AID MEASURES

<u>Eye Contact:</u>	Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.
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<u>Skin Contact:</u>	Wash skin with soap and water. If irritation persists, seek medical attention.
<u>Ingestion:</u>	Do not induce vomiting. Seek medical attention.
<u>Inhalation:</u>	Move to a fresh air environment. Contact a physician if breathing becomes difficult.

SECTION 5: FIRE FIGHTING MEASURES

<u>Flash Point:</u>	Not Available
<u>Explosion Limits:</u>	Lower: Not Available Upper: Not Available
<u>Auto Ignition Temperature:</u>	240 °C
<u>Extinguishing Media:</u>	Carbon dioxide, dry chemical powder, alcohol-resistant foam or water spray.
<u>Protective Equipment:</u>	Wear self-contained respirator and fully protective impervious suit.
<u>Specific Hazards:</u>	May emit hazardous fumes under fire conditions. May intensify fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

<u>Personal Protection:</u>	Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Keep unprotected persons away.
<u>Environmental Protection:</u>	Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

SECTION 7: HANDLING and STORAGE

<u>Handling:</u>	Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.
<u>Storage:</u>	Store in a tightly closed container in a dry, well-ventilated place. Store away from reducing agents and organic materials.
<u>Sensitivities:</u>	Not Available
<u>Storage Temperature:</u>	15 – 30 °C

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash facility in your vicinity.

Skin: Wear impervious gloves and protective clothing.

Respiratory: Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

<u>Exposure Limits:</u>	<u>Country</u>	<u>Source</u>	<u>Type</u>	<u>Value</u>
	USA	ACGIH	TWA	Not Available
	USA	OSHA	STEL	Not Available
	USA	OSHA	PEL	Not Available

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Appearance: White crystalline solid

Odor: Not Available

Melting Point: Not Available

Boiling Point: Not Available

pH Value: Not Available

Density: 1.95 g/cm³ Not

Refractive Index, n²⁰_D: Available Not

Viscosity: Available Not

Solubility in Water: Vapor Available Not

Pressure: Vapor Available Not

Density(Air=1): Available

SECTION 10: STABILITY and REACTIVITY

Stability: Stable under normal temperatures and pressures.

Incompatibility: Strong reducing agents, Organic materials, Strong acids.

Heat, Flame, Sparks, Other ignition sources, Shock.

Conditions to Avoid:

Hazardous Decomposition Products: Nitrogen oxides, Hydrogen chloride gas. Releases Chlorine gas, Nitrogen gas, Oxygen, and water vapor when heated.

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Reference: SC7520000

<u>Target Organs:</u>	Not Available
<u>Toxicity Data:</u>	Oral rat LD ₅₀ : 4200 mg/kg Not
<u>Skin corrosion/irritation:</u> <u>Serious</u>	Available
<u>Eye damage/irritation:</u>	Not Available
<u>Carcinogenicity:</u>	Not Available

SECTION 12: ECOLOGICAL INFORMATION

<u>Toxicity:</u>	Not Available
<u>Persistence and degradability:</u>	Not Available
<u>Bioaccumulative potential:</u>	Not Available
<u>Mobility in soil:</u>	Not Available
<u>PBT and vPvB assessment:</u>	Not Available
<u>Other adverse effects:</u>	Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Ammonium Perchlorate DOT

UN Number: UN1442

DOT Hazard Class: Class 5.1

DOT Packing Group: II

IMDG Shipping Name: Ammonium Perchlorate

IMDG UN Number: UN1442

IMDG Hazard Class: Class 5.1

IMDG Packing Group: II

IATA Shipping Name: Ammonium Perchlorate IATA

UN Number: UN1442

IATA Hazard Class: Class 5.1

IATA Packing Group: II

SECTION 15: REGULATORY INFORMATION

United States:

Toxic Substance Control Act (TSCA): Listed

Superfund Amendments and Reauthorization Act (SARA 302): Not listed Superfund

Amendments and Reauthorization Act (SARA 311/312): Listed Superfund Amendments
and Reauthorization Act (SARA 313): Not listed

European Union:

European Inventory of Existing Chemical Substances (EINECS): No. 232-235-1 Hazard

Codes: O, E

Risk Statements: 9-44

Safety Statements: 14-16-27-36/37

Canada

Canadian Domestic Substances List (DSL): Not listed

Canadian Domestic Substances List (NDSL): Not listed

SECTION 16: OTHER INFORMATION

Date Prepared: 05/08/2020 CS

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgment to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling or from contact with the above product.