



## SAFETY DATA SHEET

Revision Date 18-Jun-2021

### Section 1. Identification

**Product Name:** Ammonium Perchlorate  
**CAS-No.:** 7790-98-9  
**Synonyms:** No information available  
**Uses advised against** Food, drug, pesticide or biocidal product use

**MANUFACTURER/SUPPLIER**  
SAE Manufacturing Specialties Corp  
86A Bayville Avenue, Bayville, NY 11709

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

TELEPHONE NUMBER: 1-516-855-5540  
EMERGENCY NUMBER: 1-800-633-8253 (US/Canada), +1-801-629-0667 (International)

### Section 2. Hazard(s) Identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Explosives Oxidizing Solids	Division 1.1 Category 1
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#### Label Elements

#### Pictogram



**Signal Word**  
Danger

#### Hazard Statements

Explosive; mass explosion hazard  
May cause fire or explosion; strong oxidizer

## Ammonium Perchlorate

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### Precautionary Statements

#### Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
Keep wetted with water  
Ground/bond container and receiving equipment  
Do not subject to grinding/shock/friction  
Wear protective gloves/protective clothing/eye protection/face protection  
Keep/Store away from clothing/ other combustible materials  
Take any precaution to avoid mixing with combustibles  
Wear fire/flame resistant/retardant clothing

#### Skin

IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes

#### Fire

Explosion risk in case of fire  
DO NOT fight fire when fire reaches explosives  
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion  
In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction  
Evacuate area

#### Storage

Store in accordance with local regulations

#### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

None identified

### Section 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Ammonium Perchlorate	7790-98-9	<=100

### Section 4. First-Aid Measures

<b>General Advice</b>	If symptoms persist, call a physician.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
<b>Most important symptoms and effects</b>	None reasonably foreseeable.
<b>Notes to Physician</b>	Treat symptomatically

### Section 5. Fire-Fighting Measures

<b>Suitable Extinguishing Media</b>	Carbon dioxide (CO <sub>2</sub> ). Dry powder. Foam. Water may be ineffective.
<b>Unsuitable Extinguishing Media</b>	No information available
<b>Flash Point</b>	No information available
<b>Method -</b>	No information available
<b>Autoignition Temperature</b>	No information available
<b>Explosion Limits</b>	
<b>Upper</b>	No data available
<b>Lower</b>	No data available
<b>Oxidizing Properties</b>	Oxidizer
<b>Sensitivity to Mechanical Impact</b>	No information available
<b>Sensitivity to Static Discharge</b>	No information available

#### Specific Hazards Arising from the Chemical

Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood, paper, oil, clothing, etc.).

#### Hazardous Combustion Products

Nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride

#### 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.

#### NFPA

<b>Health</b>	<b>Flammability</b>	<b>Instability</b>	<b>Physical Hazards</b>
0	0	4	- OX

### Section 6. Accidental Release Measures

<b>Personal Precautions</b>	Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.
<b>Environmental Precautions</b>	Should not be released into the environment. See Section 12 for additional ecological information.
<b>Methods for Containment and Clean Up</b>	Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

### Section 7. Handling and Storage

<b>Handling</b>	Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation. Keep away from clothing and other combustible materials.
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials.

### Section 8. Exposure Controls / Personal Protection

<b><u>Exposure Guidelines</u></b>	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
<b>Engineering Measures</b>	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
<b><u>Personal Protective Equipment</u></b>	

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<b>Eye/Face Protection</b>	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
<b>Skin and body protection</b>	Long sleeved clothing.
<b>Respiratory Protection</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice.

### Section 9. Physical and Chemical Properties

<b>Physical State</b>	Solid Crystalline
<b>Appearance</b>	No information available
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available
<b>pH</b>	No information available
<b>Melting Point/Range</b>	No data available
<b>Boiling Point/Range</b>	No information available
<b>Flash Point</b>	No information available
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability or explosive limits</b>	
Upper	No data available
Lower	No data available
<b>Vapor Pressure</b>	No information available
<b>Vapor Density</b>	Not applicable
<b>Specific Gravity</b>	1.95 g/cm <sup>3</sup>
<b>Solubility</b>	No information available
<b>Partition coefficient; n-octanol/water</b>	No data available
<b>Autoignition Temperature</b>	No information available
<b>Decomposition Temperature</b>	No information available
<b>Viscosity</b>	Not applicable
<b>Molecular Formula</b>	H4 Cl N O4
<b>Molecular Weight</b>	117.50

### Section 10. Stability and reactivity

<b>Reactive Hazard</b>	Yes
<b>Stability</b>	Oxidizer: Contact with combustible/organic material may cause fire.
<b>Conditions to Avoid</b>	Incompatible products. Excess heat. Combustible material.
<b>Incompatible Materials</b>	Oxidizing agents, Strong reducing agents, Combustible material
<b>Hazardous Decomposition Products</b>	Nitrogen oxides (NO <sub>x</sub> ), Hydrogen chloride
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions</b>	None under normal processing.

## Section 11. Toxicological information

### Acute Toxicity

#### Product Information

#### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium Perchlorate	LD50 = 4200 mg/kg ( Rat )	LD50 > 3500 mg/kg ( Rat )	Not listed

**Toxicologically Synergistic Products** No information available

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

**Irritation** No information available

**Sensitization** No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No.	IARC	NTP	ACGIH	OSHA	Mexico
Ammonium Perchlorate	7790-98-9	Not listed	Not listed	Not listed	Not listed	Not listed

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

**STOT - single exposure** None known

**STOT - repeated exposure** None known

**Aspiration hazard** No information available

**Symptoms / effects, both acute and delayed** No information available

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

## Section 12. Ecological information

### Ecotoxicity

**Persistence and Degradability** No information available

**Bioaccumulation/ Accumulation** No information available.

**Mobility** No information available.

## Section 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**Ammonium Perchlorate**

**Section 14. Transport information**

**DOT**  
**UN-No** UN1442  
**Proper Shipping Name** AMMONIUM PERCHLORATE  
**Hazard Class** 5.1  
**Packing Group** II

**IDG**  
**UN-No** UN1442  
**Proper Shipping Name** AMMONIUM PERCHLORATE  
**Hazard Class** 5.1  
**Packing Group** II

**IATA**  
**UN-No** UN1442  
**Proper Shipping Name** AMMONIUM PERCHLORATE  
**Hazard Class** 5.1  
**Packing Group** II

**IMDG/IMO**  
**UN-No** UN1442  
**Proper Shipping Name** AMMONIUM PERCHLORATE  
**Hazard Class** 5.1  
**Packing Group** II

**15. Regulatory information**

All of the components in the product are on the following Inventory lists: X = listed

**International Inventories**

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Ammonium Perchlorate	X	X	-	232-235-1	-		X	X	X	X	X

**U.S. Federal Regulations**

**TSCA 12(b)** Not applicable

**SARA 313**

Component	CAS-No.	Weight %	SARA 313 - Threshold Values %
Ammonium Perchlorate	7790-98-9	<=100	1.0

**SARA 311/312 Hazard Categories** See section 2 for more information

**CWA (Clean Water Act)** Not applicable

**Clean Air Act** Not applicable

**OSHA** Occupational Safety and Health Administration  
 Not applicable

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Ammonium Perchlorate	-	TQ: 7500 lb.

**CERCLA** Not applicable

**California Proposition 65** This product does not contain any Proposition 65 chemicals

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### U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ammonium Perchlorate	X	X	X	-	X

### U.S. Department of Transportation

Reportable Quantity (RQ): N  
DOT Marine Pollutant N  
DOT Severe Marine Pollutant N

### U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Component	DHS Chemical Facility Anti-Terrorism Standard
Ammonium Perchlorate	2000 lb. STQ

### Other International Regulations

Mexico - Grade No information available

## Section 16. Other information

Date of Last Revision 18-Jun-2021

### 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 SDS**