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AMMONIUM PERSULFATE

MATERIAL SAFETY DATA SHEET

INTEGRA Chemical Company
710 Thomas Ave SW
Renton, WA 98055
Phone: 425-277-9244

MSDS Number: A660
Revision Date: 19-Sep-03
Revision #: 003

24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)

Page 1

Product Identification

Product Name: AMMONIUM PERSULFATE
Synonyms: Ammonium peroxydisulfate
Chemical Formula: (NH₄)₂S₂O₈
Formula Weight: 228.20
Chemical Family:
Integra Product Numbers: A660.10; A660.50

Hazard Overview

HMIS Rating: 1-0-3-F NFPA Rating: NE
Warning Label:

DANGER!

Strong oxidizer. Contact with flammable or combustible materials may cause fire or explosion. May be harmful if swallowed. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Components

<u>Component</u>	<u>CAS #</u>	<u>%</u>
Ammonium persulfate	07277-54-0	100

Physical Data

<u>Boiling Point:</u>	NA	<u>Specific Gravity:</u>	1.982 Water=1
<u>Melting Point:</u>	NA	<u>Evaporation Rate:</u>	NA
<u>Vapor Pressure:</u>	NA	<u>Vapor Density:</u>	NA Air = 1

Solubility:
51g/100mL water @25°C

Appearance and Odor:

White granular crystals or powder. No odor.

Fire and Explosion Data

<u>Flash Point:</u>	NA	<u>Test Method:</u>	
<u>Auto-ignition Temperature:</u>	NA		
<u>Flammable Limits (% by volume in air):</u>	Upper: NA	Lower: NA	

Fire Extinguishing Media:

Water spray. Do not use CO₂ or other gas-filled extinguishers - they will have not effet on decomposing persulfates.

Special Firefighting Procedures:

Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.

Unusual Fire and Explosion Hazards:

Strong oxidizer. Contact with combustible or flammable materials can cause fire or explosion.

Health Hazard Information

Effects of Overexposure

Skin Contact:

May cause skin irritation. Prolonged contact may cause dermatitis.

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Page 2

Health Hazard Information

Eye Contact:

Contact may be irritating to the eyes.

Ingestion:

May be harmful if swallowed.

Inhalation:

Inhalation may irritate the nose, throat and upper respiratory tract. Symptoms may include coughing and shortness of breath.

Chronic Effects of Overexposure:

None Identified

Exposure Limits:

	<u>TWA</u>	<u>OSHA PEL</u> <u>STEL</u>	<u>Ceiling</u>
Ammonium persulfate	NE	NE	NE
	<u>TWA</u>	<u>ACGIH TLV</u> <u>STEL</u>	<u>Ceiling</u>
Ammonium persulfate	NE	NE	NE

Toxicity Data:

Ammonium persulfate	LC50 (inhalation, rat)	> 2.95 mg/L/4H
	LD50 (oral, rat)	495 mg/kg

Medical Conditions Generally Aggravated by Exposure:

None Identified

Target Organs:

None Identified

Reproductive Effects:

None Identified

Carcinogenicity:

None Identified

<u>Component</u>	<u>NTP Listing</u>	<u>IARC Listing</u>	<u>OSHA Regulated</u>
Ammonium persulfate	No listing	No listing	<input type="checkbox"/>

Emergency First Aid Procedures

Skin Contact:

Wash with soap and water. Seek medical attention if irritation develops.

Eye Contact:

Flush with water for at least 15 minutes. Seek immediate medical attention.

Inhalation:

Remove to fresh air.

Ingestion:

Do not induce vomiting. If victim is conscious, give water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Additional First aid and Treatment Notes:

No information available

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Page 3

Reactivity Data

Stability: Stable
Hazardous Polymerization: Will Not Occur
Incompatibles:

Incompatible with strong acids. Alkalis, halides, combustible and other oxidizable materials, heavy metals.

Decomposition Products:

Oxides of sulfur. Oxides of nitrogen.

Conditions to Avoid:

Heat and moisture.

Spill and Disposal Procedures

Spill and Leak Procedures:

Prevent spread of spill. Sweep or scoop into disposal container. Flush residues with water. Wear suitable protective equipment.

Disposal Procedures:

Dispose in accordance with all Local, State and Federal regulations. EPA hazardous waste number: D001 (ignitable waste)

Protective Equipment

Ventilation:

Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.

Respiratory Protection:

None needed unless use generates annoying or irritating dusts, mists or vapors. Use a dust/mist respirator mask if necessary.

Skin and Eye Protective Equipment:

Safety goggles, protective clothing and gloves. Maintain an eyewash station and safety shower nearby. Rubber or neoprene gloves are recommended.

Storage and Handling Precautions

Storage Area: OXIDIZER

Store in a cool, dry area or cabinet dedicated to oxidizer storage. Keep away from incompatible substances, especially flammable or combustible materials. Protect from direct light and minimize contact with air. Protect containers from physical damage.

Transportation Information

Regulated Material domestic ground transportation

(reference: CFR Title 49, Transportation)

Proper Shipping Name: Ammonium persulfate

UN or NA Identification number: UN1444

Hazard Class and Label: 5.1

Oxidizer

Packing Group: III

Subsidiary Risk and Label:

Regulated Material via Air Transportation

(reference: ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air)

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Page 4

Transportation Information

Proper Shipping Name: Ammonium persulfate
 UN Identification Number: UN1444 Hazard Class and Label: 5.1 Oxidizer
 Packing Group: III Subsidiary Risk and Label:

	<u>Packing Instruction</u>	<u>Max net qty per package</u>
Passenger Aircraft:	516/Y516	25/10 kg
Cargo Aircraft:	518	100 kg

Regulatory Information

<u>Component</u>	<u>TSCA Inventory</u>	<u>CERCLA RQ</u>	<u>SARA EHS TPQ</u>	<u>SARA 313 Toxic Release de minimus</u>
Ammonium persulfate	<input checked="" type="checkbox"/>	lbs	<input type="checkbox"/>	lbs
<u>SARA Hazard Categories:</u>	<u>Acute</u>	<u>Chronic</u>	<u>Flammability</u>	<u>Pressure</u> <u>Reactivity</u>
Ammonium persulfate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Clean Air Act Categories:</u>	<u>SOCMI</u>	<u>HAP</u>	<u>Volatile HAP</u>	<u>Organic HAP</u> <u>Ozone Depleting</u>
Ammonium persulfate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MSDS Revision History:

002 - Changed header phone number
 003 - Format revisions; updated header phone number

NE = Not established, NA = Not applicable or Not available

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***** END OF MSDS *****