

RMA #
2052BU24

AMMONIUM PERSULFATE

SDS #: 7727-54-0-US
Revision date: 2021-10-14
Format: NA
Version 1.06



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name	AMMONIUM PERSULFATE
CAS-No	7727-54-0
Synonyms	Ammonium Peroxydisulfate; Diammonium Peroxydisulphate; Peroxydisulfuric acid, diammonium salt; Peroxydisulfuric acid, ammonium salt.

Recommended use of the chemical and restrictions on use

Recommended Use:	Polymerization initiator; Etchant and cleaner for printed circuit boards; Hair bleaching formulations; Secondary oil recovery; Oxidizing agent for a variety of organic reactions
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Restrictions on Use	No uses to be advised against were identified.
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Manufacturer/Supplier

Evonik Active Oxygens, LLC
2005 Market Street
Suite 3200
Philadelphia, PA 19103
Phone: +1 267/ 422-2400 (General Information)
E-Mail: Product-regulatory-services@evonik.com

Emergency telephone numbers

For leak, fire, spill or accident emergencies, call:
1 800 / 424 9300 (CHEMTREC - U.S.A.)
1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)
+1 303/ 389-1409 (Medical - U.S. - Call Collect)

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Precautionary Statements - Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other Information

Risk of decomposition by heat or by contact with incompatible materials

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula H₈N₂O₈S₂

Chemical name	CAS-No	Weight %
Ammonium Persulfate	7727-54-0	> 98
Ammonium sulfate	7783-20-2	< 2

4. FIRST AID MEASURES

General Advice

Remove from exposure, lie down. Show this material safety data sheet to the doctor in attendance.

Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids intermittently. Consult a physician. In case of contact, immediately flush eyes with plenty of water. If symptoms persist, call a physician.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Inhalation

Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

Ingestion

Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth. Drink 1 or 2 glasses of water.

Most important symptoms and effects, both acute and delayed

Itching; Redness; Coughing and/ or wheezing.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically

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Appropriate engineering controls

Engineering measures Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Eye protection recommended. Chemical goggles consistent with EN 166 or equivalent.

Skin and Body Protection Wear long-sleeved shirt, long pants, socks, and shoes.

Hand Protection Protective gloves: Neoprene gloves, Polyvinylchloride, Natural Rubber.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn: particulate filtering facepiece respirators.

Hygiene measures Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Wash hands before breaks and after shifts. Keep work clothes separate, remove contaminated clothing - launder after open handling of product.

General information Protective engineering solutions should be implemented and in use before personal protective equipment is considered.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Crystalline solid
Physical State	Solid
Color	White
Odor	odorless
Odor threshold	Not applicable
pH	5.2 (1% solution)
Melting point/freezing point	120 °C (Decomposes)
Boiling Point/Range	Decomposes on heating
Flash point	Not applicable
Evaporation Rate	No information available
Flammability (solid, gas)	Not flammable
Flammability Limit in Air	Not applicable
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	1.47E-23 mm Hg at 25°C
Vapor density	No information available
Density	1.98 g/cm³ (crystal density)
Specific gravity	No information available
Water solubility	45.9 % @ 25 °C
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No evidence of combustion up to 600°C
Decomposition temperature	> >100 °C (assume)
Viscosity, kinematic	No information available (Solid)
Viscosity, dynamic	No information available
Explosive properties	Not explosive
Oxidizing properties	oxidizer
Other Information	
Molecular weight	228.2
Bulk density	1.05 g/cm³ (loose)

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Mutagenicity	In vivo tests did not show mutagenic effects.
Reproductive toxicity	This product is not recognized as reprotox by Research Agencies.
STOT - single exposure	May cause respiratory irritation.
STOT - repeated exposure	Not classified.
Subchronic toxicity	Oral (NOAEL) = 41.1 mg/kg bw (Ammonium Persulfate) Inhalation (NOAEC) = 10.3 mg/m ³ (Ammonium Persulfate) Dermal: No data available
Target organ effects	Eyes, Skin, Respiratory System.
Aspiration hazard	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects

Ammonium Persulfate (7727-54-0)				
Active Ingredient(s)	Duration	Species	Value	Units
Ammonium Persulfate	96 h LC50	Onchorhyncus mykiss	76.3	mg/L
Ammonium Persulfate	48 h EC50	Water flea	120	mg/L
Ammonium Persulfate	72 h EC50	Marine algae (Phaeodactylum tricornutum)	136	mg/L
Ammonium Persulfate	96 h LC50	Turbot (Scophthalmus maximus)	107.6	mg/L
Ammonium Persulfate	18 h EC10	Pseudonomas putida	36	mg/L
Ammonium Persulfate	5 d	Abra Alba	11	mg/L
Ammonium Persulfate	96 h LC50	Grass shrimp	391	mg/L
Ammonium Persulfate	24 h EC50	Daphnia magna	635.7	mg/L

Persistence and degradability	Biodegradability does not pertain to inorganic substances.
Bioaccumulation	Does not bioaccumulate.
Mobility	Dissociates into ions.
Other Adverse Effects	None known.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods	This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.
US EPA Waste Number	D001.
Contaminated Packaging	Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

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This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

U.S. State Right-to-Know Regulations

This product contains the following substances regulated under state Right-to-Know laws:

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ammonium Persulfate		X			
Ammonium sulfate	X		X		X

California Proposition 65

This product does not contain any Proposition 65 chemicals

CANADA

Environmental Emergencies

This product contains no substances listed under Canada's Environmental Emergency regulations.

Canadian National Pollutant Release Inventory

This product contains no substances reportable under Canada's National Pollutant Release Inventory regulations.

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/EL INCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)	NZIoC (New Zealand)
Ammonium Persulfate 7727-54-0	X	X	231-786-5	X	X	X	X	X	X
Ammonium sulfate 7783-20-2	X	X	231-984-1	X	X	X	X	X	X

All ingredients are directly listed on the active TSCA Inventory

Mexico

Mexico - Grade

Slight risk, Grade 1

16. OTHER INFORMATION

NFPA	Health Hazards 1	Flammability 0	Stability 1	Special Hazards OX
HMIS	Health Hazards 1	Flammability 0	Physical hazard 1	Special precautions J

NFPA/HMIS Ratings Legend

Special Hazards: OX = Oxidizer

Protection=J (Safety goggles, gloves, apron, combination dust and vapor respirator)

Revision date:

2021-10-14

Revision note

Manufacturer name changed.

Issuing Date:

2021-02-17

Disclaimer