

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Identification of the substance or mixture**

**Product code** 17874  
**Product name** Ammonium Persulfate, 4 x 25 gm

**Company/undertaking identification**

Life Technologies Corporation  
5781 Van Allen Way  
PO Box 6482  
Carlsbad, CA 92008  
+1 760 603 7200

Life Technologies  
5250 Mainway Drive  
Burlington, ONT  
CANADA L7L 6A4  
800/263-6236

Thermo Fisher Scientific  
Pierce Biotechnology  
P.O. Box 117  
Rockford, IL 61105  
United States  
1.815.968.0747 or  
1.800.874.3723

**24 hour Emergency Response:**

866-536-0631  
301-431-8585  
Outside of the U.S. +1-301-431-8585

**Country specific Emergency Number (if available):**

CHEMTREC Brazil (Rio De Janeiro) +(55)-2139581449 (português)

**Use as laboratory reagent. Scientific research and development.**

**SECTION 2: Hazards identification****GHS - Classification****Signal Word**

DANGER





### Health hazards

Acute oral toxicity	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Specific target organ systemic toxicity (single exposure)	Category 3

### Physical hazards

GHS Physical Hazard 1	Oxidizing liquids
GHS Physical Hazard Category Number	Category 2

### Hazard Statements

H272 - May intensify fire; oxidizer

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

### Precautionary Statements

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P370 + P378 - In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction

P332 + P313 - If skin irritation occurs: Get medical advice/attention

### Principle Routes of Exposure

#### Potential Health Effects

eyes	Irritating to eyes.
Skin	Irritating to skin.
inhalation	May cause irritation of respiratory tract.
Ingestion	Harmful if swallowed.
Injection	May be harmful if injected.

#### Specific effects

Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	May cause sensitization of susceptible persons.

Target Organ Effects	No information available.
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**HMIS**

Health	4
Flammability	0
Reactivity	0

**SECTION 3: Composition/information on ingredients**

Component	CAS-No	EINECS-No	Weight %
Ammonium persulfate 7727-54-0 ( 98-100 )	7727-54-0	231-786-5	98-100

We recommend handling all chemicals with caution.

**SECTION 4: First aid measures**

<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing and wash it before reuse. Immediate medical attention is required.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
<b>Ingestion</b>	Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately.

**Most important symptoms and effects, both acute and delayed**

H272 - May intensify fire; oxidizer, H302 - Harmful if swallowed, H315 - Causes skin irritation, H317 - May cause an allergic skin reaction, H319 - Causes serious eye irritation, H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled, H335 - May cause respiratory irritation

**Notes to Physician** Treat symptomatically.

**SECTION 5: Firefighting measures**

<b>Suitable extinguishing media</b>	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.
<b>Specific hazards arising from the chemical</b>	Not known

**SECTION 6: Accidental release measures**

<b>Personal precautions</b>	Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protection equipment.
<b>Methods for cleaning up</b>	Take up mechanically, placing in appropriate containers for disposal.

**Environmental precautions**

No special environmental precautions required.

See Section 12 for more information.

**SECTION 7: Handling and storage**

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**Handling** Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

**Storage** Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## SECTION 8: Exposure controls/personal protection

### Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Ammonium persulfate	None	None	0.1 mg/m <sup>3</sup>	None

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Impervious gloves.

**Eye protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Lightweight protective clothing.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No special environmental precautions required.

## SECTION 9: Physical and chemical properties

### General information

<b>Form</b>	powder	
<b>Appearance</b>	No information available	
<b>Odor</b>	Mixture has not been tested	
<b>Odor Threshold</b>	Mixture has not been tested	
<b>Boiling point / boiling range</b>	°C No data available	°F No data available
<b>Melting point / melting range</b>	°C No data available	°F No data available
<b>flash point</b>	°C No data available	°F No data available
<b>Autoignition Temperature</b>	°C No data available	°F No data available
<b>Evaporation rate</b>	No data available	
<b>Flammability (solid, gas)</b>	No data available	
<b>Oxidizing properties</b>	Mixture has not been tested	
<b>Water solubility</b>	No data available	
<b>Upper explosion limit</b>	No data available	
<b>Lower explosion limit</b>	No data available	
<b>Partition coefficient: n-octanol/water</b>	No data available	
<b>Vapor Pressure</b>	No data available	
<b>vapor density</b>	No data available	
<b>Viscosity</b>	Mixture has not been tested	
<b>pH value</b>	No data available	

## SECTION 10: Stability and reactivity

<b>Stability</b>	Stable under normal conditions.
<b>Materials to avoid</b>	No information available.
<b>Possibility of hazardous reactions</b>	Hazardous reaction has not been reported
<b>Hazardous decomposition products</b>	No information available.
<b>polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	None under normal processing.

## SECTION 11: Toxicological information

### Acute Toxicity

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Ammonium persulfate	= 495 mg/kg (Rat)	No data available	=520mg/L(Rat)

### Principle Routes of Exposure

#### Potential Health Effects

<b>eyes</b>	Irritating to eyes.
<b>Skin</b>	Irritating to skin.
<b>inhalation</b>	May cause irritation of respiratory tract.
<b>Ingestion</b>	Harmful if swallowed.
<b>Injection</b>	May be harmful if injected.
<b>Carcinogenic effects</b>	None.
<b>Mutagenic effects</b>	None.
<b>Reproductive toxicity</b>	None.
<b>Sensitization</b>	May cause sensitization of susceptible persons.
<b>Target Organ Effects</b>	No information available

## SECTION 12: Ecological information

<b>Ecotoxicity</b>	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.
<b>Mobility</b>	No information available.
<b>Biodegradation</b>	No information available.
<b>Bioaccumulation</b>	No information available.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Ammonium persulfate		Daphnia magna EC50=120 mg/L (48 h)			

## SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

## SECTION 14: Transport information

### IATA

**Proper Shipping Name** Ammonium persulfate  
**Hazard Class** 5.1  
**Subsidiary class** None  
**Packing group** III  
**UN-No** UN1444  
**Environmental hazards** No

## SECTION 15: Regulatory information

Component	US TSCA
Ammonium persulfate 7727-54-0 ( 98-100 )	Listed

### US Federal Regulations

#### **SARA 313**

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers:.

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight %</u>	<u>SARA 313 - Threshold Values</u>
Ammonium persulfate	7727-54-0	98-100	1.0

#### **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contains HAPs.

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **WHMIS Hazard Class**

D2A - Very toxic materials



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## SECTION 16: Other information

**Reason for revision** SDS sections updated.

Use as laboratory reagent. Scientific research and development.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be

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used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"

**End of Safety Data Sheet**