

Issuing Date 4/18/2011

Revision Number 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	<b>Ammonium Persulfate</b>
<b>Product Code(s)</b>	6566
<b>Recommended Use</b>	Test kit reagent. Laboratory chemicals. Industrial (not for food or food contact use).
<b>Company</b>	LaMotte Company, Inc. 802 Washington Avenue P.O. Box 329 Chestertown, MD 21620 USA
<b>Emergency Telephone Number</b>	24 Hour Emergency Number (CHEM-TEL): USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

## 2. HAZARDS IDENTIFICATION

**DANGER!****Emergency Overview****STRONG OXIDIZER**

Contact with combustible material may cause fire

Harmful if swallowed or inhaled

May cause burns to eyes and skin

May cause allergic skin or respiratory reaction

**Appearance** White**Physical State** Crystalline, Powder**Odor** Odorless

**OSHA Regulatory Status** Safety information is given for exposure to the reagent as sold and considers exposure to the chemical if user has direct eye and skin contact.

**Potential Health Effects**

**Principle Routes of Exposure** Inhalation, skin contact, and ingestion

**Acute Toxicity****Eyes**

Contact with eyes may cause severe irritation. May cause burns. May cause redness, itching, and pain.

**Skin**

Corrosive. Contact causes severe skin irritation and possible burns.

**Inhalation**

May cause irritation of respiratory tract. May cause pulmonary edema. Symptoms may include sore throat, shortness of breath, inflammation of nasal passages, coughing, and wheezing. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Ingestion**

Corrosive. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Abdominal pain.

**Chronic Effects**

**Aggravated Medical Conditions** Those with impaired respiratory function.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula  $(\text{NH}_4)_2\text{S}_2\text{O}_8$

Chemical Name	CAS-No	Weight %
Ammonium persulfate	7727-54-0	100

## 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Seek immediate medical attention/advice. Remove and wash contaminated clothing before re-use.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and contact emergency personnel. Call a physician immediately.
<b>Ingestion</b>	DO NOT INDUCE VOMITING. Call a physician immediately. Drink plenty of water. Clean mouth with water. Never give anything by mouth to an unconscious person.
<b>Protection of First-aiders</b>	Use personal protective equipment. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

## 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not combustible, but a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.			
<b>Suitable Extinguishing Media</b>	DO NOT USE WATER. Use extinguishing agent suitable for type of surrounding fire.			
<b>Explosion Data</b>				
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus and full protective gear. Sealed containers may rupture when heated.			
<b>NFPA</b>	<b>Health Hazard 2</b>	<b>Flammability 0</b>	<b>Stability 1</b>	<b>Physical and Chemical Hazards OX</b>
<b>HMIS</b>	<b>Health Hazard 2</b>	<b>Flammability 0</b>	<b>Stability 3</b>	

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Remove all sources of ignition. Ensure adequate ventilation. Use personal protective equipment. Refer to Section 8.
<b>Methods for Containment</b>	Clean up in a manner that does not disperse dust using a non-sparking shovel and dust pan. Place in a clean dry plastic container with lid. Dispose of as hazardous waste. Dispose according to federal, state, and local regulations.
<b>Methods for Cleaning Up</b>	Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

**Handling** Refer to Section 8. Use only in area provided with appropriate exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke when using this product.

**Storage** Keep containers tightly closed in a dry, cool, and well-ventilated place. Separate from incompatibles, combustibles, organic or other readily oxidizable materials. Keep away from heat, moisture, and incompatibles. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ammonium persulfate 7727-54-0	TWA: 0.1 mg/m <sup>3</sup>	None Known	None Known

### Personal Protective Equipment

**Eye/Face Protection**

Safety glasses with side-shields.

**Skin and Body Protection**

Wear protective gloves/clothing.

**Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White	<b>Odor</b>	Odorless
<b>Physical State</b>	Crystalline, Powder	<b>pH</b>	4 (0.1g/10mL water)
<b>Boiling Point/Range</b>	Not applicable		

<b>Specific Gravity</b>	1.98 @ 20	<b>Solubility</b>	80 g/L water @ 25°C
<b>Vapor Pressure</b>	No information available	<b>Vapor Density</b>	No information available

## 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions of use and storage. Stability decreases in the presence of moisture.

**Incompatible Products** Reducing agents. Organic material. Sodium peroxide. Powdered metals especially aluminum. Water.

**Conditions to Avoid** Moisture. Combustible materials. Incompatible products.

**Hazardous Decomposition Products** Decomposed by moisture to produce oxygen and ozone. Burning may produce: Sulfur oxides. Nitrogen oxides (NOx). Sulfuric acid.

**Hazardous Reactions** Substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Contact with oxidizable substances may cause extremely violent combustion.

**Hazardous Polymerization** Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium persulfate	495 mg/kg ( Rat )	None Known	520 mg/L ( Rat ) 1 h

**Chronic Toxicity**

Chemical Name	ACGIH	IARC	NTP	OSHA
Ammonium persulfate	None Known	None Known	None Known	None Known

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Ammonium persulfate	None Known	None Known	None Known

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Ammonium persulfate	None Known	LC50= 103 mg/L <i>Lepomis macrochirus</i> 96 h LC50= 76.3 mg/L <i>Oncorhynchus mykiss</i> 96 h	None Known	EC50 = 120 mg/L 48 h

**Persistence and Degradability** No information available.

**Bioaccumulation/Accumulation** No information available.

**Mobility** No information available.

Chemical Name	Log Pow
Ammonium persulfate	None Known

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** Dispose of contents/container in accordance with local regulation.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Ammonium persulfate - 7727-54-0	None Known	None Known	None Known	None Known

Chemical Name	California Hazardous Waste Status
Ammonium persulfate	Ignitable; Reactive

## 14. TRANSPORT INFORMATION

**DOT**

	Not regulated
<b>Proper Shipping Name</b>	AMMONIUM PERSULFATE
<b>Hazard Class</b>	5.1
<b>UN-No</b>	1444
<b>Packing Group</b>	III

**IATA**

<b>UN-No</b>	1444
<b>Proper Shipping Name</b>	AMMONIUM PERSULPHATE
<b>Hazard Class</b>	5.1
<b>Packing Group</b>	III

**IMDG/IMO**

<b>Proper Shipping Name</b>	AMMONIUM PERSULPHATE
<b>Hazard Class</b>	5.1
<b>UN-No</b>	1444
<b>Packing Group</b>	III

## 15. REGULATORY INFORMATION

**International Inventories**

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Ammonium persulfate 7727-54-0 ( 100 )	Present	X	X	1-406	X	KE-09815	X	X

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Ammonium persulfate	7727-54-0	100	1.0

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium persulfate 7727-54-0 ( 100 )	None Known	None Known	None Known	None Known

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Ammonium persulfate	7727-54-0	100	None Known	None Known	None Known	None Known

**CERCLA**

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Ammonium persulfate	None Known	None Known

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

Chemical Name	CAS-No	California Prop. 65
Ammonium persulfate	7727-54-0	None Known

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ammonium persulfate	None Known	X	None Known	None Known	None Known

**International Regulations**

**Mexico - Grade**

Chemical Name	Carcinogen Status	Exposure Limits
Ammonium persulfate	None Known	None Known

**Canada**

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.

Component	WHMIS Hazard Class
Ammonium persulfate 7727-54-0 ( 100 )	0.1 % C D2A D2B



**16. OTHER INFORMATION**

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td style="text-align: center;"><b>2</b></td> </tr> <tr> <td>Fire Hazard</td> <td style="text-align: center;"><b>0</b></td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;"><b>2</b></td> </tr> </table>	Health Hazard	<b>2</b>	Fire Hazard	<b>0</b>	Reactivity	<b>2</b>		
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Fire Hazard	<b>0</b>								
Reactivity	<b>2</b>								

**Prepared By** Regulatory Affairs Department

**Issuing Date** 4/18/2011

**Revision Date** 19-Apr-2011

**Revision Note**  
Initial Release

**Disclaimer**

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of MSDS**