

## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name	Ammonium Persulfate 20% Solution
CAS number	See section 3
Synonyms	N/A

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Laboratory Chemicals
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#### 1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

#### 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC


### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin Corrosion / Irritation Category 2  
Eye Damage / Irritation Category 2A  
Respiratory Sensitizer Category 1  
Skin Sensitizer Category 1  
Specific Target Organs/Systemic Toxicity Following Single Exposure Category 2  
Specific Target Organs/Systemic Toxicity Following Repeated Exposure Category 1  
Oxidizing Liquids Category 3

## 2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal Word	Danger
Hazard statements	H272 May intensify fire; oxidizer. 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. H371 May cause damage to organs. H372 Causes damage to organs through prolonged or repeated exposure.
Precautionary statements	P210 Keep away from heat, sparks and open flame. No smoking. P220 Keep away from clothing and other combustible materials. P221 Take any precaution to avoid mixing with combustibles. P260 Do not breathe fumes, mist, vapors, or spray. P261 Avoid breathing fumes, mist, vapors, or spray. P264 Wash arms, hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves and eye protection. P285 In case of inadequate ventilation wear respiratory protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P304+P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. ContinP308+P311 IF exposed or concerned: Call a POISON CENTER or physician. P314 Get medical attention if you feel unwell. P321 Specific treatment (Wash areas of contact with water). P332+P313 If skin irritation occurs: Get medical attention. P337+P313 If eye irritation persists: Get medical attention. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or physician. P362 Take off contaminated clothing and wash it before reuse. P363 Wash contaminated clothing before reuse. P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. P405 Store locked up. P501 Dispose of contents in accordance with local, state, federal and international regulations.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	-	7732-18-5	81.82
Ammonium Persulfate	-	7727-54-0	18.18

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

<b>General advice</b>	Show a doctor this sheet if medical advice is needed.
<b>If inhaled</b>	If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
<b>In case of skin contact</b>	Wash with plenty of soap and water. May cause irritation, redness, and pain.
<b>In case of eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation, redness, pain, and tearing.
<b>If swallowed</b>	Dilute with water or milk. Call a physician if necessary.

### 4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause damage to organs. Causes damage to organs through prolonged or repeated exposure. Caution! Irritant. Oxidizer. Avoid contact with skin, eyes, or clothing. If swallowed, do not induce vomiting. Give large quantity of water and call a physician. Wash areas of contact with plenty of water for 15 minutes. For eyes, get medical attention. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause irritation, redness, and pain.

### 4.3 Indication of any immediate medical attention and special treatment needed

Wash areas of contact with water. Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. Use any means suitable for extinguishing surrounding fire.
<b>Unsuitable extinguishing media</b>	None identified.

### 5.2 Specific hazards arising from the substance or mixture

May intensify fire; oxidizer. Not combustible, may react with reducing agents and combustibles and cause ignition.

### 5.3 Special protective equipment and precautions for firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

### 5.4 Further information

**Flash Point** Data not available.

**Autoignition Temperature** Data not available.

#### Explosion limits

**Upper** Data not available.

**Lower** Data not available.

**Sensitivity to Mechanical Impact** Data not available.

**Sensitivity to Static Discharge** Data not available.

#### NFPA

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

### 6.2 Environmental precautions

No additional information.

### 6.3 Methods and materials for containment and cleaning up

Absorb with suitable material and dispose of in accordance with local regulations.

### 6.4 Reference to other sections

See section 8 for personal protective equipment. See section 13 for disposal information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Store locked up. Protect from freezing and physical damage.

### Incompatibilities

Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Aluminum, magnesium, strong reducing agents, combustible materials, strong acids, strong bases, halides, iron and other heavy metals.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Component	Type	Value
Ammonium Persulfate	TLV-TWA	0.1 mg/m <sup>3</sup>

### 8.2 Exposure controls

#### Appropriate engineering controls

No specific controls are needed. Normal room ventilation is adequate.

#### Personal protective equipment

##### Eye/face protection

Wear protective gloves and eye protection. Safety glasses or goggles.

##### Skin protection

Wear protective gloves and eye protection. Chemical resistant gloves.

##### Body Protection

Appropriate protective work clothing.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Normal room ventilation is adequate.

##### Control of environmental exposure

No additional information.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Clear, colorless
Odor	Data not available
Odor Threshold	Data not available
pH	Acidic

Melting Point/Range	Approximately 0°C
Boiling Point/Range	Approximately 100°C
Evaporation Rate	Data not available
Flammability (solid)	Data not available
Flammability or explosive limit	
Upper	Data not available
Lower	Data not available
Vapor Pressure	Data not available
Vapor Density	Data not available
Density	1.10
Solubility	Miscible in water
Partition coefficient; n-octanol/water	Data not available
Autoignition Temp	Data not available
Decomposition Temp	Data not available
Viscosity	Data not available
Molecular Formula	Data not available
Molecular Weight	Data not available
VOC Content(%)	Data not available
Oxidizing properties	Data not available

## 9.2 Other safety information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under normal conditions of use and storage.

### 10.2 Chemical stability

This solution gradually decomposes at room temperature, and more rapidly as the temperature increases, losing available oxygen.

### 10.3 Possibility of hazardous reactions

Will not occur.

### 10.4 Conditions to avoid

Keep away from heat, sparks and open flame. No smoking. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles.

### 10.5 Incompatible materials

Aluminum, magnesium, strong reducing agents, combustible materials, strong acids, strong bases, halides, iron and other heavy metals.

### 10.6 Hazardous decomposition products

Data not available.

## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

### Product Information, Component Information

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium Persulfate	Rat: 820 mg/kg	-	-

#### Skin corrosion/irritation

Causes skin irritation. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. Specific treatment (Wash areas of contact with water). If skin irritation occurs : Get medical attention. Take off contaminated clothing and wash it before reuse.

#### Serious eye damage/eye irritation

Causes serious eye irritation. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

#### Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid breathing fumes, mist, vapors, or spray. In case of inadequate ventilation wear respiratory protection. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Dispose of contents in accordance with local, state, federal and international regulations.

#### Skin sensitization

May cause an allergic skin reaction. Avoid breathing fumes, mist, vapors, or spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Specific treatment (Wash areas of contact with water). Wash contaminated clothing before reuse . Dispose of contents in accordance with local, state, federal and international regulations.

#### Germ cell mutagenicity

Not applicable.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico

#### Specific target organ toxicity - single exposure

May cause damage to organs. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed or concerned: Call a POISON CENTER or physician. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations.

**Reproductive toxicity**

Not applicable.

**Chronic effects**

Not applicable.

**11.2 Additional Information**

Data not available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Data not available.

**12.2 Persistence and degradability**

Data not available.

**12.3 Bio accumulative potential**

Data not available.

**12.4 Mobility in soil**

Data not available.

**12.5 Results of PBT and vPvB assessment**

Data not available.

**12.6 Endocrine disrupting properties**

Data not available.

**12.7 Other adverse effects**

Data not available.

**SECTION 13: Disposal considerations**

**13.1 Waste Disposal Methods**

Absorb with suitable material and dispose of in accordance with local regulations.

**SECTION 14: Transport information**



**DOT (US)**

UN Number	UN3216
Proper Shipping name	Persulphates, Inorganic, Aqueous Solution, n.o.s.
Hazard Class	5.1
Packaging Group	III
Technical name	Ammonium Persulphate

**IMDG**

UN Number	UN3216
Proper Shipping name	Persulphates, Inorganic, Aqueous Solution, n.o.s.
Hazard Class	5.1
Packaging Group	III
Technical name	Ammonium Persulphate

**IATA**

UN Number	UN3216
Proper Shipping name	Persulphates, Inorganic, Aqueous Solution, n.o.s.
Hazard Class	5.1
Packaging Group	III
Technical name	Ammonium Persulphate

**SECTION 15: Regulatory information****US federal regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous**

Not listed.

**SARA 313 (TRI reporting)**

Ammonium Persulfate (CAS # 7727-54-0): 1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)

#### **Other federal regulations**

##### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not listed.

##### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not listed.

##### **Safe Drinking Water Act**

Not listed.

##### **FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

#### **US state regulations**

##### **US. Massachusetts RTK - Substance List**

Not listed.

##### **US. New Jersey Worker and Community Right-to-Know Act**

Ammonium Persulfate (CAS # 7727-54-0): sn 0111

##### **US. Pennsylvania Worker and Community Right-to-Know Law**

Water (CAS # 7732-18-5): Present

##### **California Proposition 65**

Not listed.

#### **SECTION 16: Other information**

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#### **SECTION 17: Disclaimer**

The information provided on 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 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.