

# SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name Ammonium Persulfate

CAS number 7727-54-0

Synonyms Ammonium peroxydisulfate; Peroxydisulfuric acid diammonium salt

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

Identified uses Laboratory chemicals

## 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)

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids - Category 3
Acute oral toxicity - Category 4
Skin Corrosion/Irritation - Category 2
Serious eye damage/eye irritation - Category 2
Respiratory sensitization - Category 1

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Skin sensitization - Category 1
Specific target organ toxicity (single exposure) - Category 3
Target organs - Respiratory system

# 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard statements May intensify fire; oxidizer

Harmful if swallowed Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause respiratory irritation

Precautionary statements

Prevention Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Keep/Store away from clothing/other combustible materials Take any precaution to avoid mixing with combustibles

Inhalation If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing

Skin IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse If skin irritation or rash occurs: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

Eyes if presnt and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Fire In case of fire: Use CO2, dry chemical, or foam for exctinction Storage Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal Dispose of contents/container to an approved waste disposal plant

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## 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	Chemical name Common name and synonyms		Concentration	
Ammonium persulfate	Ammonium peroxydisulfate; Peroxydisulfuric acid diammonium salt	7727-54-0	>99%	

#### **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

**General advice** If symptoms persist, call a physician. Show this SDS to physician.

If inhaled Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or

inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Consult a physician if necessary.

In case of skin contact Wash of immediately with plenty of water for at least 15 minutes. SPEEDY

ACTION IS CRITICAL, GET MEDICAL AID IMMEDIATELY. Remove and wash

contaminated clothing and gloves, including the inside, before re-use.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Immediate medical attention is required.

**If swallowed** Do NOT induce vomiting. Call a physician or poison control center immediately.

Clean mouth with water and drink afterwards plenty of water. Never give anything

by mouth to an unconscious person.

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

May cause allergy or asthma symptosm or breathing difficulties if inhaled. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

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

Note to physician: Treat symptomatically

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media Water spray

Unsuitable extinguishing media No information available

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# 5.2 Specific hazards arising from the substance or mixture

Oxidizer: Contact with combustible/organic material may cause fire. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors. May ignite combustibles (wood paper, oil, clothing, etc)

# 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 5.4 Further information

NFPA: Health - 2 Flammability - 1 Instability - 2 Physical hazards - OX

#### SECTION 6: Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protecgtive equipment as required. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### 6.2 Environmental precautions

Should not be released into the environment. See section 12 for additional Ecological information. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Keep combustibles (wood, paper, oil, etc) away from spilled material. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Sweep up and shovel into suitable containers for disposal.

#### 6.4 Reference to other sections

No information available

#### **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

#### Precautions on safe handling

Wear personal protective equipment/face protection. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Keep away from clothing and other combustible materials. Pay attention to flashback. No information available.

#### Hygiene measures

When using do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

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# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labled containers.

#### Incompatibilities

Reducing agents. Metals. Peroxides. Strong oxidizing agents. Strong reducing agents. Combustible material.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Occupational exposure limits

US. ACGIH Threshold Limit Values					
Component	Type	Value			
Ammonium persulfate	TWA	0.1 mg/m3			

#### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protective equipment

#### **Eye/face protection**

Tight sealing safety goggles

#### Skin protection

Impervious gloves

#### **Body Protection**

Wear suitable clothing to prevent skin exposure

#### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 of European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

# Control of environmental exposure

No information available

# **SECTION 9: Physical and chemical properties**

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# 9.1 Information on basic physical and chemical properties

Physical State Powder Solid

Appearance White Odor Odorless

Odor Threshold No information available

pH 3.2 100 g/L Melting Point/Range 120 °C / 248 °F

Boiling Point/Range No information available
Evaporation Rate No information available
Flammability (solid) No information available
Flammability or explosive limit No information available

Vapor Pressure Negligible
Vapor Density Not applicable

Density 1.98

Solubility Soluble in water

Partition coefficient; n-octanol/water No information available Autoignition Temp No information available

Decomposition Temp > 120°C
Viscosity Not applicable
Molecular Formula H8 N2 O8 S2

Molecular Weight 228.19

VOC Content(%)

Oxidizing properties

No information available

No information available

# 9.2 Other safety information

No information available

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Reactive Hazard

#### 10.2 Chemical stability

Oxidizer: Contact with combustible/organic material may cause fire. Moisture sensitive.

# 10.3 Possibility of hazardous reactions

None under normal processing

#### 10.4 Conditions to avoid

Avoid dust formation. Combustible material. Excess heat. Exposure to moisture. Incompatible products.

#### 10.5 Incompatible materials

Reducing agent, metals, peroxides, strong oxidizing agents, strong reducing agents, combustible material

# 10.6 Hazardous decomposition products

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# **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	495 mg/kg	>2000 mg/kg	>2.95 mg/L - 4h

#### Skin corrosion/irritation

Irritating to eyes, respiratory system and skin

# Serious eye damage/eye irritation

No information available

## Respiratory or skin sensitization

May cause sensitization by skin contact

#### Germ cell mutagenicity

No information available

## Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Ammonium persulfate	7727-54-0	Not listed				

# Specific target organ toxicity - single exposure

Respiratory system

## Specific target organ toxicity - repeated exposure

None known

#### Reproductive toxicity

No information available

#### **Chronic effects**

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

#### 11.2 Additional Information

no information available

## **SECTION 12: Ecological information**

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# 12.1 Toxicity

Do not empty into drains. Contains a substance which is: Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment:

Component	Test	Species	Limit
	LC50	Freshwater Fish (O. mykiss)	76.3 mg/L, 96h
Ammonium Persulfate	LC50	Freshwater Fish (P. reticulata)	323 mg/L, 96h
	LC50	Freshwater Fish (L. macrochirus)	103 mg/L, 96h

# 12.2 Persistence and degradability

Soluble in water. Persistence is unlikely based on information available.

## 12.3 Bio accumulative potential

No information available

#### 12.4 Mobility in soil

Will likely be mobile in environment due to its water solubility

#### 12.5 Results of PBT and vPvB assessment

No information available

# 12.6 Endocrine disrupting properties

No information available

#### 12.7 Other adverse effects

The toxicological properties have not been fully investigated.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

#### **SECTION 14: Transport information**

DOT (US)

UN number UN1444

Proper shipping name AMMONIUM PERSULFATE

Hazard class 5.1 Packing group III

**IMDG** 

UN number UN1444

Proper shipping name AMMONIUM PERSULFATE

Hazard class 5.1 Packing group III

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IATA

UN number UN1444

Proper shipping name AMMONIUM PERSULFATE

Hazard class 5.1 Packing group III

# **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

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

Not listed.

SARA 304 Emergency release notification

Not regulated.

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

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

See section 2 for full list of hazards and precautions

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Not regulated

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

Not regulated.

**Safe Drinking Water Act** 

Not regulated

FEMA Priority Substances Respiratory Health and Safety in the Flavor

**Manufacturing Workplace** 

Not regulated

Food and Drug Administration (FDA)

Not regulated

**US** state regulations

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

Not listed

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

# US. Pennsylvania Worker and Community Right-to-Know Law Not listed

# California Proposition 65

Not listed

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

Revision date: 06/26/2024

Revision number: 0

#### **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.

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