



# HI-VALLEY CHEMICAL

## LABORATORY PRODUCTS

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### Ammonium Persulfate

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Supplier Details:** High Valley Products, Inc.  
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Centerville, Utah 84014

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## 2 HAZARDS IDENTIFICATION

### Classification of Substance

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

- Physical, Oxidizing Solids, 3
- Health, Acute toxicity, 4 Oral
- Health, Acute toxicity, 4 Dermal
- Health, Skin corrosion/irritation, 2
- Health, Respiratory or skin sensitization, 1 Skin
- Health, Serious Eye Damage/Eye Irritation, 2 A
- Health, Respiratory or skin sensitization, 1 Respiratory
- Health, Specific target organ toxicity - Single exposure, 3
- Environmental, Hazards to the aquatic environment - Acute, 3
- Environmental, Hazards to the aquatic environment - Chronic, 3

### GHS Label Elements, Including Precautionary Statements

**GHS Signal Word:** **DANGER**

#### GHS Hazard Pictograms:



#### GHS Hazard Statements:

- H272 - May intensify fire; oxidizer
- H302 - Harmful if swallowed
- H312 - Harmful in contact with skin
- 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
- H336 - May cause drowsiness or dizziness
- H402 - Harmful to aquatic life
- H412 - Harmful to aquatic life with long lasting effects

#### GHS Precautionary Statements:

- P210 - Keep away from heat.
- P220 - Keep/Store away from clothing/ combustible materials.
- P221 - Take any precaution to avoid mixing with combustibles.
- P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P264 - Wash skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.  
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P285 - In case of inadequate ventilation wear respiratory protection.  
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.  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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. Continue rinsing.  
P322 - Specific measures (see supplemental first aid instructions on this label).  
P330 - Rinse mouth.  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 - If eye irritation persists: Get medical advice/ attention.  
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.  
P362 - Take off contaminated clothing and wash before reuse.  
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/ container to an approved waste disposal plant.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients		
CAS#	%	Chemical Name
7727-54-0	100%	Ammonium persulfate

### 4 FIRST AID MEASURES

**Inhalation:** If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.  
**Skin Contact:** Wash with soap and water. Consult a physician.  
**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation.  
**Ingestion:** If swallowed, wash the mouth with plenty of water and give water to drink. If person is unconscious DO NOT give anything to drink. DO NOT induce vomiting. Get medical attention.

### 5 FIRE FIGHTING MEASURES

Extinguishing media  
Suitable extinguishing media  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture  
Nitrogen oxides (NOx), Sulphur oxides  
Container explosion may occur under fire conditions.

Advice for firefighters  
Wear self-contained breathing apparatus for firefighting if necessary.

Further information  
May intensify fire; oxidiser. Use water spray to cool unopened containers. May intensify fire; oxidiser. Use water spray to cool unopened containers.

### 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**  
Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation.

**Environmental precautions:**  
Do not let product enter drains.

**Methods and materials for containment and cleaning up:**  
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**7****HANDLING AND STORAGE**

- Handling Precautions:** Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.
- Storage Requirements:** Keep container tightly closed. Store in cool/dry area.

**8****EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment:** Ammonium persulfate cas#:(7727-54-0) [100%]  
Personal protective equipment
- Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
- Full contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min  
Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M)
- Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min  
Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
- Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Ammonium persulfate cas#:(7727-54-0) [100%]

Components with workplace control parameters

TWA 0.1 mg/m3 (TLV) USA. ACGIH Threshold Limit Values

Skin irritation varies

**9****PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance:** Powder
- Odor:** No data available
- Particle Size:** No data available
- Solubility:** 228 g/l at 20 °C (68 °F) - completely soluble

<b>Specific Gravity or Density:</b>	1.980 g/cm <sup>3</sup>
<b>Heat Value:</b>	No data available
<b>Boiling Point:</b>	Decomposes below the boiling point.
<b>Freezing or Melting Point:</b>	Decomposes before melting.
<b>Flammability:</b>	No data available
<b>Flash Point:</b>	No data available
<b>Partition Coefficient:</b>	No data available
<b>Octanol:</b>	No data available
<b>Vapor Pressure:</b>	No data available
<b>Vapor Density:</b>	No data available
<b>Potentia Hydrogenii:</b>	1.0 - 2 at 228 g/l at 25 °C (77 °F)
<b>Evaporation Rate:</b>	No data available
<b>Bulk Density:</b>	No data available
<b>Molecular weight:</b>	No data available
<b>Decompression Temperature:</b>	No data available
<b>Upper Flammability Limit and Lower Flammability Limit:</b>	No data available

## 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	May decompose on exposure to moist air or water. Stable under recommended storage conditions. May decompose on exposure to moist air or water. Stable under recommended storage conditions.
<b>Conditions to Avoid Identification:</b>	No data available
<b>Materials to Avoid Identification:</b>	Strong reducing agents, Organic materials, Powdered metals
<b>Hazardous Decomposition:</b>	No data available

## 11 TOXICOLOGICAL INFORMATION

Ammonium persulfate cas#:(7727-54-0) [100%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 689 mg/kg

Inhalation: no data available

LD50 Dermal - rat - 2,000 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: No skin irritation

Serious eye damage/eye irritation: Eyes - rabbit Result: No eye irritation

Respiratory or skin sensitisation: Germ cell mutagenicity:

no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: May cause respiratory irritation.

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: SE0350000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12 ECOLOGICAL INFORMATION

Ammonium persulfate cas#:(7727-54-0) [100%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 76 mg/l - 96 h.

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 120 mg/l - 48 h.  
other aquatic invertebrates

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

## 13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

## 14 TRANSPORT INFORMATION

UN1444, Ammonium persulfate, 5.1, PGIII

## 15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

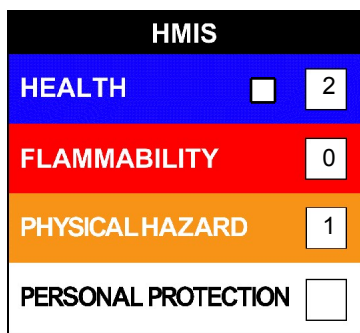
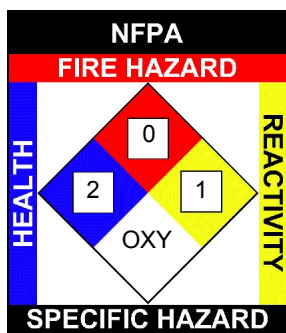
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Ammonium persulfate (7727-54-0) [100%] TSCA

Regulatory CODE Descriptions

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TSCA = Toxic Substances Control Act

## 16 OTHER INFORMATION

**NFPA:** Health = 2, Fire = 0, Reactivity = 1, Specific Hazard = OXY  
**HMIS III:** Health = 2, Fire = 0, Physical Hazard = 1



**Disclaimer:**

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Revision Date: 4/5/2019