



HI-VALLEY CHEMICAL

LABORATORY PRODUCTS

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SAFETY DATA SHEET

Hi Valley Chemical

Ammonium Chloride

1 PRODUCT AND COMPANY IDENTIFICATION

Supplier Details: High Valley Products, Inc.
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2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

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

- Health, Acute toxicity, 4 Oral
- Health, Serious Eye Damage/Eye Irritation, 2 A
- Environmental, Hazards to the aquatic environment - Acute, 2
- Environmental, Hazards to the aquatic environment - Chronic, 2

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

- H302 - Harmful if swallowed
- H319 - Causes serious eye irritation
- H401 - Toxic to aquatic life
- H411 - Toxic to aquatic life with long lasting effects

GHS Precautionary Statements:

- P264 - Wash skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P330 - Rinse mouth.
- P337+313 - Get medical advice/attention.
- P391 - Collect spillage.
- P501 - Dispose of contents/container to in accordance with local regulations.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

| Cas# | % | Chemical Name |
|------|---|---------------|
|------|---|---------------|

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.
- Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation.
- Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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
No data available

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

Further information
No data

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

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:** Avoid contact with eyes, skin, or clothing. Avoid formation of dust.
Further processing of solid materials may result in the formation of combustible dusts.
- Storage Requirements:** Keep container tightly closed. Store in cool/dry area.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- Personal Protective Equipment:** Ammonium chloride (12125-02-9) [100%]
Personal protective equipment
- Eye/face protection: Safety glasses with side-shields conforming to EN166 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: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle
respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator
cartridges. 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.

Exposure Guidelines

Ammonium chloride (12125-02-9) [100%]

Components with workplace control parameters

TWA 10 mg/m3 USA. ACGIH Threshold Limit Values
(TLV)

Eye & Upper Respiratory Tract irritation

STEL 20 mg/m3 USA. ACGIH Threshold Limit Values
(TLV)

Eye & Upper Respiratory Tract irritation

TWA 10 mg/m3 USA. NIOSH Recommended
Exposure Limits

ST 20 mg/m3 USA. NIOSH Recommended
Exposure Limits

TWA 10 mg/m3 USA. OSHA - TABLE Z-1 Limits for
Air Contaminants - 1910.1000

STEL 20 mg/m3 USA. OSHA - TABLE Z-1 Limits for
Air Contaminants - 1910.1000

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PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------------|---|
| Appearance: | Crystalline |
| Physical State: | Powder |
| Odor: | No data available |
| Odor Threshold: | No data available |
| Solubility: | No data available |
| Spec Grav./Density: | No data available |
| Viscosity: | No data available |
| Boiling Point: | No data available |
| Freezing/Melting Pt.: | 340.0 °C (644.0 °F) |
| Flash Point: | No data available |
| Partition Coefficient: | No data available |
| Vapor Pressure: | 1.3 hPa (1.0 mmHg) at 160.4 °C (320.7 °F) |
| Vapor Density: | No data available |
| pH: | 4.5 - 5.5 |
| Evap. Rate: | No data available |
| Auto-Ignition Temp: | No data available |
| Decomp Temp: | No data available |
| UFL/LFL: | No data available |

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STABILITY AND REACTIVITY

| | |
|-----------------------------|--|
| Chemical Stability: | Stable under recommended storage conditions. |
| Conditions to Avoid: | Avoid moisture, may affect product. |
| Materials to Avoid: | Strong Acids; Strong Bases; Strong Oxidizing Agents. |

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TOXICOLOGICAL INFORMATION

Ammonium chloride (12125-02-9) [100%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 1,650 mg/kg

Inhalation: no data available

Dermal: no data available

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

Serious eye damage/eye irritation: Eyes - rabbit Result: Eye irritation

Respiratory or skin sensitisation: Will not occur

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: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: BP4550000

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

12 ECOLOGICAL INFORMATION

Ammonium chloride (12125-02-9) [100%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Cyprinus carpio* (Carp) - 209.00 mg/l - 96 h.

LC50 - *Oncorhynchus mykiss* (rainbow trout) - 3.98 mg/l - 96 h

NOEC - *Oncorhynchus mykiss* (rainbow trout) - 57 mg/l - 96 h

Toxicity to daphnia and LC50 - *Daphnia magna* (Water flea) - 161 mg/l - 48 h.

other aquatic invertebrates

Growth inhibition NOEC - *Daphnia magna* (Water flea) - 0.1 mg/l - 216 h

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.
Toxic to aquatic life.

13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14 TRANSPORT INFORMATION

Non D.O.T. regulated

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

RQ(5000LBS), Ammonium chloride (12125-02-9) [n/a%] CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

Regulatory CODE Descriptions

RQ = Reportable Quantity

CERCLA = Superfund clean up substance

CSWHS = Clean water Act Hazardous substances

MASS = MA Massachusetts Hazardous Substances List

OSHAWAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

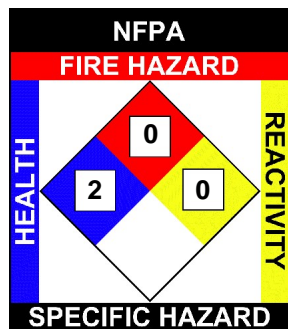
TSCA = Toxic Substances Control Act

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OTHER INFORMATION

NFPA: Health = 2, Fire = 0, Reactivity = 0, Specific Hazard = n/a

HMIS III: Health = 2, Fire = 0, Physical Hazard = 0



| HMIS | |
|---------------------|----------------------------|
| HEALTH | <input type="checkbox"/> 2 |
| FLAMMABILITY | <input type="checkbox"/> 0 |
| PHYSICAL HAZARD | <input type="checkbox"/> 0 |
| PERSONAL PROTECTION | <input type="checkbox"/> |

Disclaimer:

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