



HI-VALLEY CHEMICAL

LABORATORY PRODUCTS

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Urea

1 PRODUCT AND COMPANY IDENTIFICATION

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

Classification of Substance

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):
No GHS Classifications Indicated

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **NONE**

GHS Hazard Pictograms:

No GHS pictograms indicated for this product

GHS Hazard Statements:

No GHS hazards statements indicated

GHS Precautionary Statements:

No GHS precautionary statements indicated

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients		
CAS#	%	Chemical Name
57-13-6	90-100%	urea

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. Remove contaminated clothing immediately.

Eye Contact: Flush with large amounts of water.

Ingestion: If swallowed, wash the mouth with plenty of water and give water to drink (two glasses at most). If person is unconscious DO NOT give anything to drink. 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 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: Avoid formation of dust. Avoid contact with eyes, skin, or clothing.

Storage Requirements: Store in cool/dry area. Keep container tightly closed.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment:

Urea cas#:(57-13-6) [90-100%]

Personal protective equipment

Eye/face protection: 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: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Do not let product enter drains.

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Components with workplace control parameters

TWA 10 mg/m³ USA. Workplace Environmental

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White granules	Odor:	Ammonia like
Physical State:	Solid	Solubility:	ca. 1,000 g/l at 68 °F (20 °C)
Odor Threshold:	No data available	Freezing or Melting Point:	133 °C
Specific Gravity or Density:	1.34 g/cm ³ at 68 °F (20 °C)	Flash Point:	No data available
Viscosity:	No data available	Volatile organic compound:	No data available
Boiling Point:	No data available	Upper Flammability Limit and Lower Flammability Limit:	No data available
Flammability:	No data available		
Partition Coefficient:	log Pow: -1.59 (25 °C)		
Vapor Pressure:	No data available		
Potentia Hydrogenii:	ca. 9 at 100 g/l 68 °F (20 °C)		

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STABILITY AND REACTIVITY

Reactivity:	Risk of dust explosion.
Chemical Stability:	Stable under recommended storage conditions.
Conditions to Avoid identification:	Strong heating (decomposition)

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TOXICOLOGICAL INFORMATION

Urea cas#:(57-13-6) [90-100%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 8,471 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: No eye irritation

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: mouse lymphocyte DNA damage

Cytogenetic analysis

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: YR6250000

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

12 ECOLOGICAL INFORMATION

Urea cas#:(57-13-6) [90-100%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Poecilia reticulata* (guppy) - 17,500 mg/l - 96 h.

Toxicity to daphnia and EC50 - *Daphnia magna* (Water flea) - 3,910 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: no data available

13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14 TRANSPORT INFORMATION

Non DOT regulated

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Urea (57-13-6) [90-100%] TSCA

Regulatory CODE Descriptions

TSCA = Toxic Substances Control Act

16 OTHER INFORMATION

Disclaimer:

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