

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 05/11/2021 Reviewed on 05/11/2021

1 Identification

- · Product Identifier
- · Trade Name: Artificial Urine DIN EN 1616:1999
- · Product Number: 1700-0017, 1700-0558, 1700-0603
- · Relevant identified uses of the substance or mixture and uses advised against:

No further relevant information available.

- · Product Description: Artificial urine prepared according to DIN EN 1616:1999 standard procedure
- · Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier:

Pickering Laboratories, Inc.

1280 Space Park Way

Mountain View, CA 94043

Phone: (650) 694-6700

Fax: (650) 968-0749

www.pickeringlabs.com

support@pickeringlabs.com

· Emergency telephone number:

Clean Harbors Environmental Services

1-800-645-8265

2 Hazard(s) Identification

· Classification of the substance or mixture:

The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.

- · Label elements:
- · Hazard pictograms: Non-Regulated Material
- · Signal word: Non-Regulated Material
- · Hazard statements: Non-Regulated Material
- · Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

0 % of the mixture consists of component(s) of unknown toxicity.

- · Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- NFPA ratings (scale 0 4)



Health = 0 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0Fire = 0

REACTIVITY O Physical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None

3 Composition/Information on Ingredients

- · Chemical characterization: Substance
- · **Description:** Mixture of substances listed below with non-hazardous additions.

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| · Dangerous Components: | | |
|-----------------------------------|--|-------|
| CAS: 57-13-6 RTECS: YR 6250000 | Urea | ≤2.5% |
| | Ammonium Chloride • Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2A, H319 | <0.5% |

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

* 4 First-Aid Measures

- · Description of first aid measures
- · General information: If symptoms persist, call a physician.
- After inhalation: Not anticipated under normal use.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· After eye contact:

If eye irritation occurs, consult a doctor.

Rinse opened eye for several minutes under running water.

After swallowing:

Rinse mouth with water ensuring that rinse is not swallowed. Drink 2 glasses of water to dilute and induce vomitting by touching finger to the back of the victims throat. Get medical assistance immediately.

- · Information for doctor
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Fire-Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: No further relevant information is available.
- · Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
- Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

- · Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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· Protective Action Criteria for Chemicals

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|------------|----------------------------|-----------------------|
| PAC-1: | | |
| 57-13-6 | Urea | 30 mg/m³ |
| 7778-77-0 | Potassium Phosphate | 9.6 mg/m ⁻ |
| 12125-02-9 | Ammonium Chloride | 20 mg/m³ |
| 7757-83-7 | Sodium sulfite | 11 mg/m³ |
| PAC-2: | | · |
| 57-13-6 | Urea | 280 mg/m |
| 7778-77-0 | Potassium Phosphate | 110 mg/m |
| 12125-02-9 | Ammonium Chloride | 54 mg/m³ |
| 7757-83-7 | Sodium sulfite | 120 mg/m |
| PAC-3: | | |
| 57-13-6 | Urea | 1,700 mg/m |
| 7778-77-0 | Potassium Phosphate | 630 mg/m³ |
| 12125-02-9 | Ammonium Chloride | 330 mg/m³ |
| 7757-83-7 | Sodium sulfite | 710 mg/m³ |

7 Handling and Storage

- Handling
- Precautions for safe handling:

Avoid contact with skin, eyes and clothing

Avoid breathing fumes.

Use personal protection equipment as outlined in section 8.

- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage
- · Requirements to be met by storerooms and receptacles: Store frozen
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:
- · Components with occupational exposure limits:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituents have no known exposure limits.

57-13-6 Urea

WEEL Long-term value: 10 mg/m³

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- Personal protective equipment
- · General protective and hygienic measures:

Use adequate exhaust ventilation to prevent inhalation of product vapors.

Do not eat or drink while handling product.

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Immediately remove all soiled and contaminated clothing.

The usual precautionary measures for handling chemicals should be followed.

Wash hands before breaks and at the end of work.

· Breathing equipment:

Respiratory protection is not required unless handling of the material produces nuisance airborne concentrations.

· Protection of hands:



Protective gloves

· Material of gloves:

Latex or vinyl

Rubber

· Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· Eye protection:



Tightly sealed goggles

- · Body protection: Lab coat
- · Limitation and supervision of exposure into the environment: None

9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid
Color: Colorless
Odor: Odorless
Odor threshold: Not determined.

The determined.

• pH-value @ 20 °C (68 °F): 6.6 ± 0.10 (@ 25°C ± 0.4)

· Change in condition

Melting point/Melting range: Not determined.

· Flash point: None

Flammability (solid, gaseous): Not applicable.
 Ignition temperature: Not applicable
 Decomposition temperature: Not determined.

· **Auto igniting:** Product is not self-igniting.

• Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapor pressure: Not determined.

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Density: Not determined.
Relative density: Not determined.
Vapor density: Not determined.
Evaporation rate: Not determined.

· Solubility in / Miscibility with:

Water: Aqueous solution

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

· Solvent content:

VOC content: 0.00 %

0.0 g/l / 0.00 lb/gal

· Other information: No further relevant information available.

10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials:
- Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- Information on toxicological effects:
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

57-13-6 Urea

Oral LD50 8,471 mg/kg (Rat)

- · Primary irritant effect:
- On the skin: Mild irritant effect.
- · On the eye: Mild irritant effect.
- · Additional toxicological information:
- · Carcinogenic categories:
- · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

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12 Ecological Information

- · Toxicity:
- · Aquatic toxicity:

57-13-6 Urea

EC50 >10,000 mg/l (Daphnia)

- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · *Mobility in soil:* No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment:
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

13 Disposal Considerations

- · Waste treatment methods
- Recommendation:

This product may be mixed with a combustible solvent and burned in a chemical incinerator equipped with an after burner and scruber. This product can also be sent to an EPA approved waste disposal facility.

- Observe all federal, state and local environmental regulations when disposing of this material.
- · Uncleaned packaging
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport Information

· UN-Number:

· DOT, ADR/ADN, ADN, IMDG, IATA Non-Regulated Material

· UN proper shipping name:

· DOT, ADR/ADN, ADN, IMDG, IATA Non-Regulated Material

· Transport hazard class(es):

· DOT, ADR/ADN, ADN, IMDG, IATA

· Class: Non-Regulated Material

· Packing group:

· DOT, ADR/ADN, IMDG, IATA Non-Regulated Material

Environmental hazards: Not applicable.
 Special precautions for user: Not applicable.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.

**UN "Model Regulation": Non-Regulated Material

15 Regulatory Information

· Safety, health and environmental regulations/legislation specific for the substance or mixture: No further relevant information available.

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Safety Data Sheet (SDS)
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· National regulations:

None of the ingredients are listed.

| occiion so | 55 (extremely hazardous substances): | |
|-------------|--|--|
| None of the | e ingredients are listed. | |
| Section 31 | 3 (Specific toxic chemical listings): | |
| None of the | e ingredients are listed. | |
| TSCA (Tox | xic Substances Control Act): | |
| All compon | ents have the value ACTIVE. | |
| Hazardous | s Air Pollutants | |
| None of the | e ingredients are listed. | |
| | Proposition 65: | |
| | known to cause cancer: | |
| None of the | e ingredients are listed. | |
| | known to cause reproductive toxicity for females: | |
| None of the | e ingredients are listed. | |
| | known to cause reproductive toxicity for males: | |
| None of the | e ingredients are listed. | |
| | known to cause developmental toxicity: | |
| None of the | e ingredients are listed. | |
| New Jerse | y Right-to-Know List: | |
| | Sodium Phosphate, dibasic | |
| 12125-02-9 | 9 Ammonium Chloride | |
| | y Special Hazardous Substance List: | |
| None of the | e ingredients are listed. | |
| - | nia Right-to-Know List: | |
| | Sodium Phosphate, dibasic | |
| 12125-02-9 | 9 Ammonium Chloride | |
| - | nia Special Hazardous Substance List: | |
| | Sodium Phosphate, dibasic | |
| 12125-02-9 | 9 Ammonium Chloride | |
| Carcinoge | nic categories: | |
| EPA (Envi | ronmental Protection Agency): | |
| 57-13-6 Ur | rea | |
| TLV (Thres | shold Limit Value established by ACGIH): | |
| None of the | e ingredients are listed. | |
| NIOSH-Ca | (National Institute for Occupational Safety and Health): | |
| None of the | e ingredients are listed. | |
| | elements Non-Regulated Material | |

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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- · Contact:
- · Date of last revision/ revision number: 05/11/2021 / 4
- · Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, ÉU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

* Data compared to the previous version altered.

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106