



# Safety Data Sheet

## Acetic Acid, 40%

### 1. Identification

**Product Name:** Acetic Acid, 40%**Item #:** SKC1055-250, SKC1055-500**Web SDS:** S168**Synonyms:** Diluted glacial acetic acid**Recommended Use:** N/A**Restrictions on Use:** N/A**Manufacturer:**BBC Biochemical  
409 Eleanor Lane,  
Mount Vernon, WA 98273  
1-800-635-4477**In Case of Emergency:**Chemtrec US 1-800-424-9300  
Chemtrec International 703-527-3887

### 2. Hazards Identification

**OSHA Hazard Classification(s):**

Acute Toxicity - Inhalation - Category 4

Skin Corrosion - Category 1A

Eye Damage - Category 1

**Signal Word:** Danger**Hazard Statement(s):** Harmful if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage.**Pictogram(s):****Precautionary Statement(s):** Prevention: Avoid breathing dust, vapors. Use only outdoors or in a well-ventilated area. Do not breathe dusts or mists. Wash body thoroughly after handling. Wear protective gloves, protective clothing, eye protection and face protection. Wear eye protection, face protection.**Response:** If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Take off all contaminated clothing and wash it before reuse. Immediately call a doctor. Specific treatment (see first aid section on this label). If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing**Storage:** Store locked up.**Disposal:** Dispose of contents/container in accordance with local regulations.**Descriptions of Hazards not otherwise classified:** N/A**Percent of mixture with unknown acute toxicity:** N/A

### 3. Composition and Information on Ingredients

| Chemical Name       | Common Name | CAS #     | Concentration % |
|---------------------|-------------|-----------|-----------------|
| Water               |             | 7732-18-5 | 60              |
| Glacial Acetic Acid |             | 64-19-7   | 40              |

### 4. First Aid Measures

**Eye Contact:** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.**Skin Contact:** If on skin (or hair): Take off immediately all contaminated clothing and wash before reuse. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.**Inhalation:** Remove to fresh air; give artificial respiration if breathing has stopped. Get medical advice/attention if you feel unwell.**Ingestion:** Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.



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**Symptoms:** Irritation eyes, nose, throat; headache, dizziness

**Recommendations for immediate medical care/special treatment:** Get medical advice/attention if you feel unwell.

### 5. Fire- Fighting Measures

**Extinguishing Media:** Dry chemical, carbon dioxide, alcohol foam, water.

**Fire Hazards (Chemical):** Not flammable. Emits toxic fumes under fire conditions.

**Special Protective Equipment:** Fire fighters should use self-contained breathing apparatus and protective clothing.

**Precautions for Firefighters:** Carbon monoxide and unidentified organic compounds may be formed during combustion.

### 6. Accidental Release Measures

**Emergency Procedures:** Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all sources of ignition and provide ventilation.

**Protective Equipment:** See section 8

**Environmental Precautions:** Prevent release to the environment by using barriers.

**Containment and Clean-Up Procedures:** Use barriers to prevent spreading. Collect spill in container. Call waste authorities.

### 7. Handling and Storage

**Handling:** Do not breathe vapors. Do not eat, drink or smoke when using this product.

**Storage:** Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store away from heat, sparks and open flame.

### 8. Exposure Controls/Personal Protection

**OSHA Permissible Exposure Limits (PELs):**

| Reagent             | CAS #   | OSHA PEL TWA     |
|---------------------|---------|------------------|
| Glacial Acetic Acid | 64-19-7 | 10 ppm, 25 mg/m3 |

**ACGIH Threshold Limit Values (TLVs):**

| Reagent             | CAS #   | ACGIH PEL TLV    | ACGIH STEL       |
|---------------------|---------|------------------|------------------|
| Glacial Acetic Acid | 64-19-7 | 10 ppm, 25 mg/m3 | 15 ppm, 37 mg/m3 |

**Engineering Controls:** Use in a well ventilated area to prevent exposure. Maintain eyewash fountain and quick-drench facilities in work areas.

**Personal Protective Measures:** Wear gloves, lab coat, eye protection and impervious footwear. Contact lenses should not be worn when working with this material.

**Special PPE Requirements:** If ventilation hood not available wear respirator.

### 9. Physical and Chemical Properties Section

**Appearance:** Colorless, Liquid

**Molecular Weight:** N/A

**Molecular Formula:** N/A

**pH:** 1.68

**Boiling Point and Boiling Range:** N/A

**Melting Point/Freezing Point:** N/A

**Flash Point:** N/A

**Specific Gravity/Relative Density:** N/A

**Odor:** Pungent, like vinegar

**Odor Threshold:** N/A

**Color:** Colorless

**Flammability (solid/gas):** N/A



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**Vapor Density:** N/A  
**Upper/Lower flammability or explosive limits:** N/A  
**Vapor Pressure:** N/A  
**Evaporation Rate:** N/A  
**Partition Coefficient: n-octanol/water:** N/A  
**Viscosity:** N/A  
**Auto-ignition temperature:** N/A  
**Solubility:** Miscible in water  
**Decomposition Temperature:** N/A

### 10. Stability and Reactivity

**Reactivity:**  
**Chemical Stability:** Stable  
**Conditions of Stability/Instability:** N/A  
**Stabilizers needed:** None  
**Safety issue indicated by appearance change:** N/A  
**Other:** N/A  
**Hazardous Reactions:** N/A  
**Hazardous Polymerization:** Does not occur  
**Conditions to avoid:** N/A  
**Classes of Incompatible Materials:** Oxidizers, Strong Acids, Strong Bases  
**Hazardous Decomposition Products:** Thermal-oxidation degradation can produce oxides of carbon. Toxic gases and vapors (i.e. Carbon monoxide) may be released in a fire.

### 11. Toxicological Information

#### Likely Routes of Exposure

**Eyes:** Corrosive to eyes, may cause permanent corneal damage or blindness.  
**Skin:** Corrosive to skin, may cause permanent damage.  
**Inhalation:** Dizziness, headache. Vapors are harmful to airways.  
**Ingestion:** Nausea, can be toxic by ingestion. Possible damage to esophagus, stomach lining and gastrointestinal tract.

**Signs or Symptoms of Exposure:** Nausea, diarrhea, dizziness, loss of appetite, inability to concentrate, headache, irritation of eyes, nose, throat.

**Effects from short term exposure (delayed, immediate, chronic):** Irritation to the eyes, nose, throat; headache, dizziness, nausea.

**Acute Toxicity (Numerical Measures):** Glacial Acetic Acid CAS 64-19-7: LD50 (mammal, skin)=1060mg/kg; LD50 (rabbit, skin)=1060 mg/kg; LC50(inhalation, mouse)=5620 ppm/1H; LC50(inhalation, mouse)=5620 mg/m3/1H

**Carcinogenicity (NTP, IARC, OSHA):** Not listed as a carcinogen.

### 12. Ecological Information

**Ecotoxicity:** Acute Aquatic Effects Data for 100% Glacial Acetic Acid 96 h LC-50 (fathead minnow): > 100mg/L 48 h LC-50 (golden orfe): 410 mg/L 48 h LC-50 (mosquito fish): 251 mg/L 96 h LC-50 (daphnid): > 100 mg/L

**Persistence and degradability:** The product itself and its products of degradation are not toxic.

**Bioaccumulation Potential (octanol-water partition coefficient, BCF):** This material is a strongly acidic aqueous solution, and this property may cause adverse environmental effects. Oxygen Demand Data for 100% Glacial Acetic Acid BOD-5: 340-880 mg/g BOD-20: 900 mg/g COD: 1,030 mg/g

**Mobility in the soil:** N/A

**Adverse Environmental Effects:** N/A

### 13. Disposal Considerations



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**Recommended Disposal Containers:** Check with your local waste authorities.\*

**Recommended Disposal Methods:** Do not dispose of in drains, check with your local waste authorities.\*

**Physical/Chemical Properties affecting Disposal:** See section 2 and section 9 applicable information.\*

**Special Precautions for Landfill and Incineration Activities:** Check with your local waste authorities.\*

**Waste Stream:** Consult your local or regional authorities.\*

### 14. Transport Information

**UN Number:** UN2789

**UN Proper Shipping Name:** Acetic Acid, Glacial

**Transport Hazard Class(es):** 8 (3)

**Packing Group Number:** II

**Environmental Hazards (IMDG code):**

**Marine Pollutant:** No

**Transport in Bulk (IBC Code):** N/A

**Special Transport Precautions:** N/A

### 15. Regulatory Information

**OSHA:**

**DOT:**

**EPA:**

**CPSC:**



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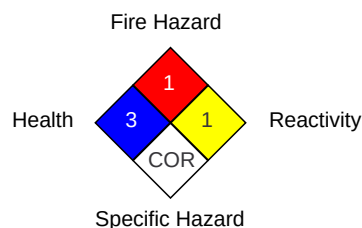
### 16. Other Information

Revision Date: 01/07/2015

#### NFPA

|                 |     |
|-----------------|-----|
| Health          | 3   |
| Fire Hazard     | 1   |
| Reactivity      | 1   |
| Specific Hazard | COR |

National Fire Protection Association (USA) NFPA



#### HMIS

|                     |   |
|---------------------|---|
| Health              | 3 |
| Flammability        | 1 |
| Physical Hazard     | 1 |
| Personal Protection |   |

Hazardous Material Information System HMIS

|                     |   |
|---------------------|---|
| Health              | 3 |
| Flammability        | 1 |
| Physical Hazard     | 1 |
| Personal Protection |   |

#### Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

## SAFETY DATA SHEET

**Unger The Pill UE (US-CA-MX / EN)**

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 12.08.2015

Revision date 11.05.2022

**1.1. Product identifier**

Product name Unger The Pill UE (US-CA-MX / EN)

Article no. 13604 / 13605 / PL100 / PL500 / 15033 / HYSPT / ETSET

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

Function Description: Detergent

Product group Cleaning agents

Use of the substance / preparation Glass Cleaner - Non-Aerosol

Uses advised against No specific uses advised against are identified.

Industrial use Yes

Professional use Yes

Consumer use Yes

**1.3. Details of the supplier of the safety data sheet**

Company name Unger Enterprises LLC

Office address 425 Asylum Street

Postcode 06610

City Bridgeport, CT

Country United States of America

Telephone number +1 800 431 2324

Fax +1 800 367 1988

Email [compliance@ungerglobal.com](mailto:compliance@ungerglobal.com)

Website <http://www.ungerglobal.com>

## 1.4. Emergency telephone number

### Identification, comments

For Hazardous Materials [or Dangerous Goods] Incident - Spill, Leak, Fire, Exposure, or Accident - Call CHEMTREC Day or Night.  
 Within USA and Canada: 1-800-424-9300 CCN726541 or +1 703-527-3887 (collect calls accepted).  
 Within Mexico, please call + 1 203 366 4884 (collect calls accepted) between 8:30 am – 5:00 pm Eastern Time Zone (EST/EDT).

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]

Eye Irrit. 2; H319; Calculation method

### 2.2. Label elements

#### Hazard pictograms (CLP)



#### Composition on the label

Sodium bicarbonate 70 - 82 % wt/wt, Citric acid 15 - 25 % wt/wt, Sodium lauryl sulfoacetate 1,5 - 2,0 % wt/wt, Polyethylene glycol 1,0 - 2,0 % wt/wt, Magnesium stearate 0,15 % wt/wt, FDC Blue No. 1 0,25 % wt/wt

#### Signal word

Warning

#### Hazard statements

H319 Causes serious eye irritation.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P264 Wash hands thoroughly after handling.  
 P280 Wear protective gloves/eye protection.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards

#### Physicochemical effects

cf. section 9 for physical-chemical information.

#### Health effect

May be harmful if swallowed. May irritate eyes and skin.

#### Environmental effects

Cf. section 12 for information on ecology.

#### Symptoms and effects of potential misuse

No information required.

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

| Substance               | Identification    | Classification     | Contents        | Notes |
|-------------------------|-------------------|--------------------|-----------------|-------|
| Sodium bicarbonate (US) | CAS No.: 144-55-8 |                    | 70 - 82 % wt/wt |       |
| Citric acid (US)        | CAS No.: 77-92-9  | Eye Irrit. 2; H319 | 15 - 25 % wt/wt |       |

|                                 |                                                                                        |                                                                                                       |                   |
|---------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------|
| Sodium lauryl sulfoacetate (US) | CAS No.: 1847-58-1                                                                     | Acute tox. 4; H302<br>Acute tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>STOT SE3; H335 | 1,5 - 2,0 % wt/wt |
| Polyethylene glycol (US)        | CAS No.: 25322-68-3                                                                    | STOT SE3; H335                                                                                        | 1,0 - 2,0 % wt/wt |
| Magnesium stearate (US)         | CAS No.: 557-04-0                                                                      |                                                                                                       | 0,15 % wt/wt      |
| FDC Blue No. 1 (US)             | CAS No.: 3844-45-3                                                                     |                                                                                                       | 0,25 % wt/wt      |
| Description of the mixture      | Pellets. Solid. Blue. 0% of the mixture consists of ingredient(s) of unknown toxicity. |                                                                                                       |                   |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|              |                                                                                                                                                                                                           |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General      | Place unconscious person on the side in the recovery position and ensure breathing can take place. If medical advice is needed, have product container or label at hand.                                  |
| Inhalation   | Due to the small packaging the risk of inhalation is minimal. IF INHALED: Move into fresh air and keep at rest.                                                                                           |
| Skin contact | Wash skin with soap and water.                                                                                                                                                                            |
| Eye contact  | Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.        |
| Ingestion    | Immediately rinse mouth and drink plenty of water (200-300 ml). Never give liquid to an unconscious person. DO NOT INDUCE VOMITING! If medical advice is needed, have product container or label at hand. |

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

|                            |                    |
|----------------------------|--------------------|
| Acute symptoms and effects | Burning sensation. |
|----------------------------|--------------------|

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

|                               |                                                                    |
|-------------------------------|--------------------------------------------------------------------|
| Specific details on antidotes | Decontamination, symptomatic treatment. No special antidote known. |
|-------------------------------|--------------------------------------------------------------------|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                              |                                                                                             |
|------------------------------|---------------------------------------------------------------------------------------------|
| Suitable extinguishing media | Product doesn't ignite. Use fire-extinguishing media appropriate for surrounding materials. |
| Improper extinguishing media | Water jet.                                                                                  |

### 5.2. Special hazards arising from the substance or mixture

|                               |                                                                                                                                                                               |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire and explosion hazards    | This product is not flammable.                                                                                                                                                |
| Hazardous combustion products | Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Hydrocarbons. Organic decomposition products. Sulfur dioxide (SO <sub>2</sub> ). Sulfur trioxide (SO <sub>3</sub> ). |



### 5.3. Advice for firefighters

|                               |                                                                                                               |
|-------------------------------|---------------------------------------------------------------------------------------------------------------|
| Personal protective equipment | In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required. |
|-------------------------------|---------------------------------------------------------------------------------------------------------------|

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                              |                                                                                                                        |
|------------------------------|------------------------------------------------------------------------------------------------------------------------|
| General measures             | Avoid dust formation. Avoid contact with eyes and skin.                                                                |
| Personal protection measures | Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. |
| For emergency responders     | In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required.          |

### 6.2. Environmental precautions

|                                      |                                                                |
|--------------------------------------|----------------------------------------------------------------|
| Environmental precautionary measures | Avoid discharge into drains, water courses or onto the ground. |
|--------------------------------------|----------------------------------------------------------------|

### 6.3. Methods and material for containment and cleaning up

|          |                                                                                                |
|----------|------------------------------------------------------------------------------------------------|
| Clean up | Sweep-up or pick-up with an industrial vacuum cleaner, store in closed container for disposal. |
|----------|------------------------------------------------------------------------------------------------|

### 6.4. Reference to other sections

|                    |                                                                           |
|--------------------|---------------------------------------------------------------------------|
| Other instructions | cf. section 8 for personal protection, and section 13 for waste disposal. |
|--------------------|---------------------------------------------------------------------------|

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|          |                                                                                                                                                         |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling | Observe good chemical hygiene practices. Avoid contact with eyes and prolonged skin contact. Avoid eating, drinking and smoking when using the product. |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|

### 7.2. Conditions for safe storage, including any incompatibilities

|         |                                                              |
|---------|--------------------------------------------------------------|
| Storage | Store at moderate temperatures in dry, well ventilated area. |
|---------|--------------------------------------------------------------|

### Conditions for safe storage

|                                            |                                                                                                                            |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Requirements for storage rooms and vessels | Storage in gateways, passages, stairways, hallways open to public, roofs, attics, cellars and work-rooms is not advisable. |
| Advice on storage compatability            | No incompatibilities known.                                                                                                |

### 7.3. Specific end use(s)

|                 |                 |
|-----------------|-----------------|
| Recommendations | Cf. section 1.2 |
|-----------------|-----------------|

## SECTION 8: Exposure controls / personal protection

## 8.1. Control parameters

| Substance               | Identification                                                                                                                        | Exposure limits                                                                                                                                                                                                                 | TWA Year |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Sodium bicarbonate (US) | CAS No.: 144-55-8                                                                                                                     | Limit value (8 h) : 5 mg/m <sup>3</sup><br><b>Exposure limit letter</b><br>Letter code: OEL<br><b>Exposure limit letter</b><br>Letter description:<br>Occupational Exposure<br>Limit / 8 hours (shift length)<br>Source: Latvia |          |
| Biological limit value  | Recommended monitoring procedures: NIOSH 0500: Total particulates not otherwise regulated.<br>OSHA PV2121: Gravimetric determination. |                                                                                                                                                                                                                                 |          |

## 8.2. Exposure controls

### Precautionary measures to prevent exposure

|                                             |                                                                                                                                                       |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Organisational measures to prevent exposure | Thoroughly clean hands, forearms, and face after handling of the product, before eating, drinking and lavatory use, and at the end of the work shift. |
| Technical measures to prevent exposure      | Use engineering controls to reduce air contamination to permissible exposure level.                                                                   |

### Eye / face protection

|                         |                                                                          |
|-------------------------|--------------------------------------------------------------------------|
| Suitable eye protection | Wear approved, tight fitting safety glasses where splashing is probable. |
|-------------------------|--------------------------------------------------------------------------|

### Hand protection

|                           |                                                                        |
|---------------------------|------------------------------------------------------------------------|
| Hand protection, comments | For prolonged or repeated skin contact use suitable protective gloves. |
|---------------------------|------------------------------------------------------------------------|

### Skin protection

|                              |                                             |
|------------------------------|---------------------------------------------|
| Suitable protective clothing | Generally regular work clothing sufficient. |
|------------------------------|---------------------------------------------|

### Respiratory protection

|                                            |                                                                                                                                     |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Respiratory protection, general            | Generally regular work clothing sufficient.                                                                                         |
| Additional respiratory protection measures | In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2). |

### Hygiene / environmental

|                           |                                                                                                                                                                                                                                                                    |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specific hygiene measures | No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                               |                                                                                                                                                |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical state                | Pellets. Solid.                                                                                                                                |
| Colour                        | Blue.                                                                                                                                          |
| Odour                         | Odourless.                                                                                                                                     |
| pH                            | Status: In delivery state<br>Comments: No data recorded.<br><br>Status: In aqueous solution<br>Value: 7,0 - 7,5<br>Method: 2% aqueous solution |
| Melting point / melting range | Value: > 200 °C                                                                                                                                |
| Boiling point / boiling range | Comments: No data recorded.                                                                                                                    |
| Flash point                   | Comments: No data recorded.                                                                                                                    |
| Evaporation rate              | Comments: No data recorded.                                                                                                                    |
| Flammability                  | No data recorded.                                                                                                                              |
| Vapour pressure               | Comments: No data recorded.                                                                                                                    |
| Vapour density                | Comments: No data recorded.                                                                                                                    |
| Solubility                    | Medium: Water<br>Comments: Unlimited miscible                                                                                                  |
| Decomposition temperature     | Comments: No data recorded.                                                                                                                    |
| Viscosity                     | Comments: No data recorded.                                                                                                                    |
| Explosive properties          | Not explosive                                                                                                                                  |
| Oxidising properties          | Not oxidizing                                                                                                                                  |

## 9.2. Other information

|                 |                             |
|-----------------|-----------------------------|
| Softening point | Comments: No data available |
|-----------------|-----------------------------|

## Physical hazards

|                |                             |
|----------------|-----------------------------|
| Content of VOC | Comments: No data available |
| Particle size  | Comments: No data recorded. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|            |                              |
|------------|------------------------------|
| Reactivity | Stable in normal conditions. |
|------------|------------------------------|

### 10.2. Chemical stability

|           |                                                                 |
|-----------|-----------------------------------------------------------------|
| Stability | Stable under normal temperature conditions and recommended use. |
|-----------|-----------------------------------------------------------------|

### 10.3. Possibility of hazardous reactions

|                                    |                                                                              |
|------------------------------------|------------------------------------------------------------------------------|
| Possibility of hazardous reactions | No hazardous reactions under regular storage and handlings conditions known. |
|------------------------------------|------------------------------------------------------------------------------|

## 10.4. Conditions to avoid

Conditions to avoid                      Protect from moisture.

## 10.5. Incompatible materials

Materials to avoid                      Strong acids.

## 10.6. Hazardous decomposition products

Hazardous decomposition products                      Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Organic decomposition products.

# SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Other toxicological data                      ATE (Oral) 4695.00 mg/kg bw  
ATPE (Dermal) 55000.00 mg/kg bw

## Other information regarding health hazards

|                                    |                                                                                                                                                                                                                            |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation                         | No specific health warnings noted. Dust may irritate respiratory system.                                                                                                                                                   |
| Skin contact                       | No specific health warnings noted. Dust has an irritating effect on moist skin. Prolonged contact may cause redness and irritation.                                                                                        |
| Eye contact                        | No specific health warnings noted. Prolonged contact may cause redness and/or tearing. Causes serious eye irritation.                                                                                                      |
| Ingestion                          | No specific health warnings noted. The product causes irritation of mucous membranes and may cause abdominal discomfort if swallowed. Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhea. |
| Sensitisation                      | No specific health warnings noted.                                                                                                                                                                                         |
| Mutagenicity                       | No specific health warnings noted.                                                                                                                                                                                         |
| Carcinogenicity, other information | No specific health warnings noted.                                                                                                                                                                                         |
| Teratogenic properties             | No specific health warnings noted.                                                                                                                                                                                         |
| Reproductive toxicity              | No specific health warnings noted.                                                                                                                                                                                         |
| STOT-single exposure               | No data available, probably no subchronic toxicity                                                                                                                                                                         |
| STOT-repeated exposure             | No data available, probably no chronic toxicity                                                                                                                                                                            |
| Aspiration hazard                  | Technically not feasible.                                                                                                                                                                                                  |

# SECTION 12: Ecological information

## 12.1. Toxicity

|                        |                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------|
| Substance              | Citric acid (US)                                                                            |
| Aquatic toxicity, fish | <b>Value:</b> 1516 mg/L<br><b>Test duration:</b> 96h<br><b>Species:</b> Lepomis macrochirus |
| Substance              | Citric acid (US)                                                                            |

|                              |                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------|
| Aquatic toxicity, crustacean | <b>Value:</b> 120 mg/L<br><b>Test duration:</b> 72h<br><b>Species:</b> Daphnia magna |
|------------------------------|--------------------------------------------------------------------------------------|

## 12.2. Persistence and degradability

|                                         |                                                      |
|-----------------------------------------|------------------------------------------------------|
| Persistence and degradability, comments | All organic components are considered biodegradable. |
|-----------------------------------------|------------------------------------------------------|

## 12.3. Bioaccumulative potential

|                           |                                     |
|---------------------------|-------------------------------------|
| Bioaccumulative potential | The product is not bioaccumulating. |
|---------------------------|-------------------------------------|

## 12.4. Mobility in soil

|          |                                                            |
|----------|------------------------------------------------------------|
| Mobility | No data on possible environmental effects have been found. |
|----------|------------------------------------------------------------|

## 12.5. Results of PBT and vPvB assessment

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| PBT assessment results | This product does not contain any PBT or vPvB substances. |
|------------------------|-----------------------------------------------------------|

## 12.6. Other adverse effects

|                                        |                                               |
|----------------------------------------|-----------------------------------------------|
| Ozone depletion potential              | Comments: Ozone depletion potential not known |
| Photochemical ozone creation potential | Comments: Ozone formation potential not known |
| Global warming potential               | Comments: Global greenhouse effect not known  |

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

|                                             |                                                                                                                                                                                                                                                                                              |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specify the appropriate methods of disposal | Dispose of waste and residues in accordance with local authority requirements.<br>No specific disposal method required.                                                                                                                                                                      |
| Relevant waste regulation                   | USA: Federal waste regulation: 40 CFR 261<br>Canada: Canadian Environmental Protection Act (CEPA 1999; s.s..1999, c.33)<br>Part 7 Controlling Pollution and Managing Wastes.<br>Mexico: Regulation of the General Law of Ecological Balance and Environmental Protection in Hazardous Waste. |
| Product classified as hazardous waste       | No                                                                                                                                                                                                                                                                                           |
| Packaging classified as hazardous waste     | No                                                                                                                                                                                                                                                                                           |

# SECTION 14: Transport information

|                 |    |
|-----------------|----|
| Dangerous goods | No |
|-----------------|----|

## 14.1. UN number

|          |                          |
|----------|--------------------------|
| Comments | No recommendation given. |
|----------|--------------------------|

**14.2. UN proper shipping name**

Comments No recommendation given.

**14.3. Transport hazard class(es)**

Comments No recommendation given.

**14.4. Packing group**

Comments No recommendation given.

**14.5. Environmental hazards**

Comments No recommendation given.

**14.6. Special precautions for user**

Special safety precautions for user No recommendation given.

**14.7. Maritime transport in bulk according to IMO instruments**

Product name No recommendation given.

**Additional information**

Additional information The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**ADR/RID Other information**

ADR Other information No recommendation given.

**ADN Other information**

Other information No recommendation given.

**IMDG Other information**

IMDG Other information No recommendation given.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture**

References (laws/regulations) International Inventories

USA: All compounds are listed on the TSCA Inventory  
Canada: All components are listed either on the DSL or NDSL.

Regulations of the United States of America:

29 CFR 1910.1200, Subpart Z (Toxic and Hazardous Substances), App. A (Health

Hazards), App B (Physical Criteria), App C (Allocation of Label Elements), App D (Minimum Information for a SDS), App E (Trade Secret), App F (Carcinogenicity).

US Federal Regulations:

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories:

Acute Health Hazard Yes

Chronic Health Hazard No

Fire Hazard No

Sudden release of pressure hazard No

Reactive Hazard No

CWA (Clean Water Act):

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65:

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations:

This product does not contain any substances regulated by state right-to-know regulations.

Regulations of Canada:

Workplace Hazardous Materials Information System (WHMIS 2015), adoption to the Globally Harmonized System (GHS).

Hazardous Products Act (R.S.C., 1985, c.H-3), last amended Feb 11, 2015.

Hazardous Products Regulation (SOR / 2015-17), last amended Feb 11, 2015.

Regulations of Mexico:

Official Mexican Standard NMX-R-019-SCFI-2011, harmonized system of classification and hazard communication of chemicals [Globally Harmonized System (GHS)] (DOF, 29-VI-2011).

Official Mexican Standard NOM-018-STPS-2000, system for the identification and communication of hazards and risks from hazardous chemicals in the workplace

(DOF. 27-X-2000).

**15.2. Chemical safety assessment**

Chemical safety assessment performed

No

Chemical safety assessment

No data recorded.

Exposure scenarios for mixture

No

Exposure scenario comments

No recommendation given.

**SECTION 16: Other information**

Supplier's notes

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

List of relevant H-phrases (Section 2 and 3)

H318 Causes Serious eye damage.  
 H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H335 May cause respiratory irritation.  
 H312 Harmful in contact with skin.  
 H319 Causes serious eye irritation.

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]

Eye Irrit. 2; H319; Calculation method

Training advice

not relevant

Recommended restrictions on use

Not relevant.

User notes

In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material, as far as not expressly stated otherwise.

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