

Acetic Acid, Dilute - Safety Data Sheet

1. IDENTIFICATION

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| Product Name: | Acetic Acid, Dilute |
| Synonyms/Generic Names: | Acetic Acid Solution |
| Product Use: | Raw material for the manufacture of polyurethanes. |
| Restrictions on Use: | None known |
| Manufacturer: | Everchem Specialty Chemicals 1400 N. Providence Road, Ste 302, Media, PA 19063, USA Phone: (484) 234-5030, Fax: (484)234-5037 Website: www.everchem.com |
| In Case Of Emergency Call: | CHEMTREC (800) 424-9300(24 Hours/Day, 7 Days/Week, US & Canada) or call (collect) at (703) 527-3887 (USA) |

2. HAZARD(S) IDENTIFICATION

Please see Section 3 and 15 for country specific classification information, and Section 11 for additional details.

Hazard Classification according to 29 CFR 1910.1200

Classification of Substance or Mixture

Skin Corrosion

Category 1B

H314

Labeling

Pictograms



Signal Word

DANGER

Hazard Statements

H314 – Causes severe skin burns and eye damage

Precautionary Statements

Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice/attention.

Hazards Not Otherwise Classified

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient Name | CAS Number | Weight % | GHS Classification |
|-----------------|------------|----------|--------------------|
| Acetic Acid | 64-19-7 | 20 - 50 | H314 |

Trace impurities and additional material names not listed above may appear in Section 15 of this MSDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.

4. FIRST AID MEASURES

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| Symptoms/Effects | |
| Skin: | Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before use. Destroy contaminated shoes. |
| Eyes: | Immediately flush eyes with water while lifting the eyelids and continue for several minutes. Get medical attention immediately. |
| Inhalation: | Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. |
| Ingestion: | DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. |
| Most Important Effects | |
| Acute: | May be corrosive to eyes and skin |
| Delayed: | No long-term effects are expected. |
| Advice to Physician | |
| | Observe for pulmonary edema. Product is corrosive to eyes and skin. Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

Flammable Properties

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| Suitable Extinguishing Media: | Water fog, foam, dry chemical, carbon dioxide or water spray. |
| Unsuitable Extinguishing Media: | Avoid solid stream of water if liquid is heated to ignition. It may spread burning liquid. |
| Unusual Fire And Explosion Hazards: | Sealed containers can rupture violently when exposed to fire. Decomposition products may include the following materials: Carbon dioxide Carbon monoxide |
| Special Fire Fighting Precautions/Instructions: | Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. |

6. ACCIDENTAL RELEASE MEASURES

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| Emergency Procedures: | Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. |
| Personal Precautions: | Use suitable protective equipment (section 8). Follow all fire-fighting procedures (section 5). Do not touch or walk through spilled material. |
| Protective Equipment: | Wear suitable personal protective equipment including hand and eye/face protection and suitable clothing for the task being performed. |
| Environmental Precautions and Clean Up Methods: | (See Section 8 for recommended personal protective equipment.) Small spills: Soak up with absorbent material such as oil-dry or vermiculite. Place into containers but DO NOT seal them. Arrange for disposal. Large spills: Dike spill and pump into suitable containers for disposal. Do not allow to enter natural waterways or sewers. Ventilate area during cleanup. |

Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

7. HANDLING AND STORAGE

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| Normal Handling: | Avoid contact with skin and eyes. Do not breathe product mists if formed. (See Section 8 for recommended personal protective equipment.) |
| Storage Recommendations: | Keep containers closed during storage. Store away from moisture, isocyanates and oxidizing agents. (See Section 10 for hazards associated with contamination.) Do not roll drums. Move drums with fork lifts equipped with “parrot beaks” or drum clamps. Product life is approximately 360 days when stored between 50 & 120 °F (10 & 50 °C) under an inert atmosphere such as nitrogen. Do not allow product to become contaminated with other materials. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| Engineering Controls: | General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. |
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Personal Protective Equipment

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| Skin Protection: | Wear impervious clothing and gloves to prevent contact. Neoprene is recommended. Other protective material may be used, depending on the situation. If adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present. |
| Eye Protection: | Wear safety glasses with eye-shields or chemical safety goggles. Avoid the use of contact lenses for liquid transfer and handling operation. In addition to goggles, wear a face shield if there is reasonable chance of splash to the face. |
| Respiratory Protection: | Based on workplace contaminant level and working limits of the respirator, use a respirator approved by NIOSH. The following is the minimum recommended equipment for an occupational exposure level. For concentrations >1 and <10 times the occupational exposure level: Use air purifying respirator with full face piece and organic vapor cartridge(s) or air purifying full facepiece respirator with an organic canister for full face piece powered air-purifying respirator fitted with organic vapor cartridge(s). The air purifying element must have an end of service life indicator, or a documented change out schedule must be established. For concentration >10 and <100 times the occupational exposure level: Use Type C full facepiece supplied air respirator operated in positive-pressure or continuous flow mode. For concentration >100 times the occupational exposure level: Use self contaminated breathing apparatus with full facepiece in positive pressure mode or Type C positive-pressure full facepiece supplied air respirator with an auxiliary positive pressure self-contaminated breathing apparatus escape system. |
| Additional Recommendations: | A source of running water such as a safety shower and/or eyewash station is recommended in the work area. |

Exposure Guidelines

| Ingredient | ACGIH TLV | OSHA PEL | Other Limit |
|--------------------|-----------|----------|------------------|
| Acetic Acid 25-50% | 15 ppm | 10 ppm | None established |

¹ = Limit established by Everchem and supplier.

² = Workplace Environmental Exposure Level (AIHA).

³ = Biological Exposure Index (ACGIH).

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|-------------------|---------------------|
| Appearance: | Colorless liquid | |
| Physical State: | Liquid | |
| Odor: | Pungent Odor | |
| Odor Threshold: | Not Determined | |
| Partition Coefficient: n-octanol/water | Not Determined | |
| Relative Density (water = 1.0): | 1.01 to 1.055 | |
| Solubility In Water (weight %): | Soluble | |
| pH: | Not determined | |
| Boiling Point: | Not determined | |
| Freezing Point: | Not determined | |
| Viscosity | Not determined | |
| Vapor Pressure: | >1 | |
| Vapor Density (air = 1.0): | Not determined | |
| Evaporation Rate: | Not determined | Compared To: |
| Flammability | Not determined | |
| % Volatiles: | Not determined | |
| Flash Point: | >200 °F (>93.3°C) | |
| Autoignition Temperature: | Not determined | |
| Upper Flame Limit (volume % in air): | Not determined | |
| Lower Flame Limit (volume % in air): | Not determined | |
| Decomposition Temperature | Not determined | |

10. STABILITY AND REACTIVITY

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| Reactivity: | Stable under normal storage conditions. |
| Conditions to Avoid: | Heat, flames and sparks. Take precautionary measures against static charges and avoid exposure to light. |
| Incompatibilities: | Keep away from caustic soda, lime and strong alkalis, oxidizing agents such as nitric acid, peroxides, amines, sulfuric acid, perchloric acid, or chromium trioxide. Oxidizing agents – may ignite product. Contaminated product should never be placed in a sealed container. Never attempt to open a bulging drum. Contact Everchem Specialty Chemicals if this occurs. |
| Hazardous Decomposition Products: | Carbon monoxide, carbon dioxide and organic residues |
| Hazardous Polymerization: | Will not occur. |

11. TOXICOLOGICAL INFORMATION

| Routes of Exposure | |
|---------------------------|---|
| Skin: | May be damaging to skin |
| Eyes: | May be damaging to eyes |
| Inhalation: | Inhalation of product mists may cause severe irritation and may damage nose, throat, esophagus. |
| Ingestion: | Ingestion of large quantities may cause damage due to corrosive nature of product |
| Immediate Effects: | May cause severe skin damage or eye damage |
| Delayed Effects: | No delayed effects are known |
| Acute Toxicity: | Not expected to be toxic based on surrogate data |
| Eye Irritation: | Causes eye damage |
| Skin Irritation: | Causes skin damage |
| Chronic Toxicity: | Not expected to cause chronic toxicity effects |

| Carcinogenicity | NTP Status | IARC Status | OSHA List |
|---------------------------------------|------------|-------------|-----------|
| Ingredient Name | | | |
| No ingredients listed in this section | ---- | ---- | ---- |

12. ECOLOGICAL INFORMATION

No data currently available. Avoid contact with natural waterways and soils.

13. DISPOSAL CONSIDERATIONS

RCRA

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| Is the unused product a RCRA hazardous waste if discarded? | Yes |
| If yes, the RCRA ID number is: | D002 |

The information offered in Section 13 is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

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| Other Disposal Considerations: | Liquid product should be incinerated in a licensed facility in accordance with local, state and federal regulations. Do not discharge to waterways or sewer systems or dispose of on the ground. Under no circumstances should a torch, welder, plasma cutter or similar tool capable of producing an arc be used on an empty container regardless of the whether the container has been rinsed or cleaned. Containers should be punctured with a non-sparking tool and disposed of in a licensed facility or landfill. |
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14. TRANSPORT INFORMATION

US Department of Transportation 40 CFR

| | |
|------------------------------|----------------------|
| Proper Shipping Name: | Acetic Acid Solution |
| UN/NA Number | UN 2790 |
| Hazard class | 8 |
| Packing Group | III |

DOT Reportable Quantity (RQ): 5000 lb/2270 kg

ICAI/IATA

| | |
|------------------------------|----------------------|
| Proper Shipping Name: | Acetic Acid Solution |
| UN/NA Number | UN 2790 |
| Hazard class | 8 |
| Packing Group | III |
| Label | Corrosive |

15. REGULATORY INFORMATION

Toxic Substances Control Act (TSCA)

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|---|-----------------------------------|
| TSCA Inventory Status: | Listed on TSCA Chemical Inventory |
| Listings in other TSCA Sections: | None |

SARA Title III/CERCLA

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

| Ingredient | SARA/CERCLA RQ (lb) | SARA EHS TPQ (lb) |
|-------------------|----------------------------|--------------------------|
| Acetic Acid | 5,000 | ---- |

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

SARA 311 Hazard Class: Immediate

SARA 313 Toxic Chemicals:

The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

| Ingredient | Comment |
|--|----------------|
| No ingredients listed in this section. | |


State Right-To-Know

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

| Ingredient | CAS # | Weight % | NJ | PA | MA |
|--|--------------|-----------------|-----------|-----------|-----------|
| No ingredients listed in this section. | | | | | |

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| Additional Regulatory Information: | None |
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Non-US Regulatory Information.

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|---|---|
| CANADIAN REGULATIONS: | |
| This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the MSDS contains all information required by the Controlled Products Regulation. | |
| WHMIS Classification: (Canada) | Class E Corrosive; D-2B Material causing other toxic effects (Toxic) |
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| | |
|--|-------------------|
| Canadian Inventory Status (DSL) | Listed on the DSL |
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16. OTHER INFORMATION

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| Current Issue Date: | June 28, 2015 |
| Previous Issue Date: | November 18, 2008 |
| Changes from previous Issue Date: | New HCS2012 Compliant Format |
| Other Product Information: | None |

Hazard Ratings

| HMIS (III) | NFPA |
|---------------------|------------------|
| Health – 3 | Health – 3 |
| Flammability – 1 | Flammability – 1 |
| Physical Hazard – 0 | Instability – 0 |

The technical data contained herein is true and accurate to the best of Everchem Specialty Chemicals knowledge on the date of publication. The technical data is subject to change, however, and the user should contact Everchem Specialty Chemicals to verify that the technical data is current. In addition, the technical data is provided for your guidance only. Because many factors can affect the processing or application of the product and/or its use, it is the user's responsibility to test the product to determine its suitability for the user's intended use. The sale and use of

this product is subject to all of the terms and conditions set forth in the Everchem Specialty Chemicals order, including the LIMITED WARRANTY, DISCLAIMER OF WARRANTY AND RELEASE, and EXCLUSION OF CONSEQUENTIAL AND OTHER DAMAGES. This technical data does not create an express warranty of any kind. The only warranty applicable to this product is the written, limited express warranty contained in the Everchem Specialty Chemicals sales order, which is extended to the purchaser only.