

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: 50% Diluted Acetic Acid Food Grade
Synonyms: acetic acid, Diluted Acetic Acid
CAS Number: 64-19-7
Grade/Purity: Food Grade
Product Type: Acids
Product Use: Industrial, Manufacturing or Laboratory use
Manufacturer/Supplier: Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574
Information: 512-365-6838 | www.alliancechemical.com
Emergency: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

Signal Word: Danger

GHS Pictograms:



Hazard Statements:

| | |
|------|--|
| H226 | Flammable liquid and vapor [Warning Flammable liquids] |
| H314 | Causes severe skin burns and eye damage [Danger Skin corrosion/irritation] |

Precautionary Statements:

| | |
|-------|---|
| P210, | P233, P240, P241, P242, P243, P260, P264, P280, P301+P330+P331, P302+P361+P354, P303+P361+P353, P304+P340, P305+P354+P338, P316, P321, P363, P370+P378, P403+P235, P405, and P501 |
|-------|---|

3. COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENT | % MIN | % MAX | CAS # | EINECS# / ELINCS# | FORMULA | MOLECULAR WEIGHT |
|-------------|-------|-------|-----------|-------------------|----------------------|------------------|
| Acetic Acid | 50 | 50 | 64-19-7 | 200-580-7 | CH ₃ COOH | 60.05 g/mol |
| Water | 50 | 50 | 7732-18-5 | 231-791-2 | H ₂ O | 18.02 g/mol |

4. FIRST-AID MEASURES

| | |
|-------------------|--|
| Eyes | EYES: First check the victim for contact lenses and remove if present. Flush victim's eyes with water or normal saline solution for 20 to 30 minutes while simultaneously calling a hospital or poison control center. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician. IMMEDIATELY transport the victim after flushing eyes to a hospital even if no symptoms (such as redness or irritation) develop. |
| Skin | Remove contaminated clothes. Rinse and then wash skin with water and soap. Rinse skin with plenty of water or shower for at least 15 minutes. Refer immediately for medical attention. |
| Inhalation | INHALATION: IMMEDIATELY leave the contaminated area; take deep breaths of fresh air. If symptoms (such as wheezing, coughing, shortness of breath, or burning in the mouth, throat, or chest) develop, call a physician and be prepared to transport the victim to a hospital. Provide proper respiratory protection to rescuers entering an unknown atmosphere. Whenever possible, Self-Contained Breathing Apparatus (SCBA) should be used; if not available, use a level of protection greater than or equal to that advised under Protective Clothing. |

| | |
|------------------|--|
| Ingestion | Rinse mouth. Do NOT induce vomiting. If within a few minutes after ingestion, one small glass of water may be given to drink. Refer immediately for medical attention. |
|------------------|--|

5. FIRE-FIGHTING MEASURES

| | |
|-----------------------------|---|
| Suitable Media | Dry chemical, CO2, water spray. Use water spray to cool containers. |
| Unsuitable Media | Do not use a solid water stream as it may scatter and spread fire. |
| Protective Equipment | Wear self-contained breathing apparatus and full protective clothing. |
| Combustion Products | May include carbon oxides and other toxic fumes. See Section 10. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|---|
| Personal Precautions | Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas. |
| Environmental | Prevent leakage or spillage from entering drains, sewers, or waterways. |
| Containment & Cleanup | Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations. |

7. HANDLING AND STORAGE

| | |
|----------------------|---|
| Safe Handling | Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use. |
| Safe Storage | Store in a cool, dry, well-ventilated area. Use corrosion-resistant containers. Keep away from incompatible materials (see Section 10). Keep containers tightly closed. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

Occupational Exposure Limits:

| AGENCY | EXPOSURE LIMIT |
|-----------|--------------------------|
| OSHA PEL | 10 ppm TWA |
| NIOSH REL | 10 ppm TWA / 15 ppm STEL |
| IDLH | 50 ppm |

| | |
|-------------------|---|
| Eyes | Wear chemical safety goggles or face shield. |
| Skin | Wear chemical-resistant gloves and protective clothing. |
| Inhalation | For mist or aerosol applications (e.g., spray, atomization, pressure washing), use a NIOSH-approved half-face air-purifying respirator with combination acid gas / P100 cartridges. For dust exposure, an N95 or P100 particulate filter is acceptable. Ensure local exhaust ventilation. |

Exposure limits sourced from NIOSH Pocket Guide and OSHA 29 CFR 1910.1000. Hazard classification from ECHA Classification and Labelling Inventory (CLP Annex VI).

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|----------------|
| Appearance | Not Available |
| Odor | Characteristic |
| Median Particle Size | Not Applicable |
| Particle Size Distribution | Not Applicable |
| Particle Shape | Not Applicable |
| Surface Area | Not Applicable |
| Dustiness | Not Applicable |
| Hygroscopicity | Not Applicable |
| pH | Not Available |
| Melting Point | Not Available |

| | |
|--------------------------|----------------------|
| Boiling Point | Not Available |
| Flash Point | Not Available |
| Vapor Pressure | Not Available |
| Specific Gravity | Not Available |
| Solubility | Not Available |
| Molecular Formula | CH ₃ COOH |
| Molecular Weight | 60.05 g/mol |

10. STABILITY AND REACTIVITY

| | |
|-------------------------------|---|
| Chemical Stability | Stable under recommended storage conditions. |
| Hazardous Reactions | None under normal processing conditions. |
| Conditions to Avoid | Heat, sparks, open flame, and incompatible materials. |
| Incompatible Materials | Strong acids, strong bases, reactive metals, water (for some concentrated forms). |
| Decomposition Products | May produce carbon oxides and other toxic fumes when heated to decomposition. |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: See Section 2 for GHS hazard classification.

| | |
|-------------|---------------------------|
| IARC | Not listed as carcinogen. |
| NTP | Not listed as carcinogen. |
| OSHA | Not listed as carcinogen. |

12. ECOLOGICAL INFORMATION

| | |
|-------------------------|---|
| Ecotoxicity | Data not available. Avoid release to the environment. |
| Persistence | Not Available |
| Bioaccumulation | Not Available |
| Mobility in Soil | Not Available |

13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

14. TRANSPORT INFORMATION

| | |
|-------------------------|--|
| US DOT | UN2790, Acetic acid solution, with not less than 50 percent but not more than 80 percent acid, by mass, 8, PG II |
| IMDG | UN2790, Acetic acid solution, with not less than 50 percent but not more than 80 percent acid, by mass, 8, PG II |
| IATA/ICAO | UN2790, Acetic acid solution, with not less than 50 percent but not more than 80 percent acid, by mass, 8, PG II |
| Marine Pollutant | No |

15. REGULATORY INFORMATION

| | |
|---|---|
| Regulatory listings not yet on file in this system; consult OSHA, EPA TSCA, EPCRA TRI, and California OEHHA directly. | |
| SARA 311/312 | See Section 2 for hazard classifications. |

16. OTHER INFORMATION

Revision Date: 07/01/2026

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of publication. It relates only to the specific product identified and does not relate to its use in combination with other materials. ALLIANCE CHEMICAL MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALLIANCE CHEMICAL DOES NOT ASSUME LIABILITY FOR LOSS, INJURY, DAMAGE, OR EXPENSE ARISING FROM THE HANDLING, STORAGE, USE, OR DISPOSAL OF THIS PRODUCT.