

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Identifiers

Product name: Acetic Acid 42.5% Solution

Product Number:

Product Application: pH adjustment in paint preparation systems

Emergency telephone number: CHEMTREC (800) 424-9300 Poison Control: 1-800-222-1222

SECTION 2 – HAZARD IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Signal Word: DANGER

Pictograms: Corrosive, Flammable

Physical Hazards: Corrosive to metals (Category 2)

Health Hazards: Skin Irritation/Corrosion (Category 1A)

Serious Eye Damage/Irritation (Category 1)

Environmental Hazards: Not classified

Hazard Statements

H303 + H313 May be harmful if swallowed or in contact with skin.

H314 Causes severe skin burns and eye damage.

Precautionary Statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood

P234 Keep only in original container

P260 Do not breathe dust/fume/gas/mist/vapors/spray

P270 Do not eat or drink or smoke when using this product

P280 Wear protective gloves/protective clothing/eye protection/face protection

Response:

P233 Keep container tightly closed.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection

P304+340 IF INHALED: Remove person to fresh air and keet comfortable for breathing

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:

P401 Store away from incompatible materials.

P401 Store in accordance with regulations.

P403/P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501 Dispose of contents / container in accordance with local / state / federal regulations

HNOC: None known



SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient	CAS	Wt%
Acetic Acid	64-19-7	42.5%

SECTION 4 – FIRST AID MEASURES

Description of first aid measures

General advice:

P308/313 If exposed or concerned: Get medical advice/attention

P314 Get Medical advice/attention if you feel unwell. Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves. Show this Safety Data Sheet to the physician in attendance.

If inhaled:

P304/ P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P311 Call a POISON CENTER/ doctor

In case of skin contact:

P361 Take off immediately all contaminated clothing.

P353 Rinse skin with water/shower

P310 Immediately call a POISON CENTER/doctor. Chemical burns must be treated by a physician.

P363 Wash contaminated clothing before reuse.

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact:

P305/P351/P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing during transport to medical facility.

P310 Immediately call a POISON CENTER/doctor. Chemical burns must be treated by a physician.

If swallowed:

P310 Immediately call a POISON CENTER/doctor.

P301/P330/P331 If swallowed: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed:

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

Indication of any immediate medical attention and special treatment needed:

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

SECTION 5 – FIREFIGHTING MEASURES

Flammable Properties: Non-Flammable

Explosive Properties: N/A

Suitable Extinguishing media: N/A

Unsuitable extinguishing media: N/A

Special hazards arising from the substance or mixture:

Overheating in fire conditions may produce toxic gases. Contact with strong oxidizers may generate sufficient heat to ignite nearby combustibles.

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA Fire Brigades Standard (29 CFR 1910.156).

SECTION 6 – ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Wear respiratory protection. Avoid breathing vapor, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Methods and materials for containment and cleaning up: Concentrated product may be soaked up with absorbent material and landfilled in accordance with local, state, and federal regulations. Keep in suitable, closed containers for disposal.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Other Information:

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood

P260 Do not breathe dust/fume/gas/mist/vapors/spray

P262 Do not get in eyes or on skin or on clothing

P264 Wash hands thoroughly after handling

P270 Do not eat or drink or smoke when using this product

P271 Use only outdoors or in a well-ventilated area

P280 Wear protective gloves/protective clothing/eye protection/face protection

Conditions for safe storage, including any incompatibilities:

P234 Keep only in original container

P403/P235 Store in a well-ventilated place. Keep Cool.

P406 Store in a corrosive resistant container with a resistant inner liner

SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

Control parameters

Components with workplace control parameters:

<u>Acetic Acid</u> (CAS No. 64-19-7)	ACGIH 15 ppm (STEL)	10 ppm TWA
	OSHA 25 mg/m ³ (PEL)	10 ppm TWA
	NIOSH 37 mg/m ³ (STEL)	10 ppm TWA

Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Recommended good general ventilation or local exhaust to keep airborne levels below recommended exposure limits. Provide eye wash and quick drench shower in the immediate work area.

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full facepiece chemical respirator with organic vapor cartridge, especially if local ventilation is inadequate.

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash hands after removing gloves. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid with acrid vinegar odor
pH: 1.2
Specific Gravity: 1.025
Molecular Weight: 60.05
Water Solubility: Complete
Melt/Freeze Point: Not Determined
Boiling Point: 110 C / 230 F
Flammability: Not Flammable under normal conditions
Flash Point: 109 F
Vapor Density: 2.07
Note: Physical Data is typical values based on material tested, but may vary based on composition. Values should not be accepted as guaranteed for every lot or as specifications for this product.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: May be corrosive to metals
Chemical stability: Stable under normal conditions of use and storage
Possibility of hazardous reactions: None known
Conditions to avoid: Avoid nitrates, aluminum or magnesium, strong oxidizers, amines, alkali metals, strong bases, or strong acids. Vinyl compounds, rubber, water, heat.
Incompatible materials: Aluminum & magnesium, alkali metals, vinyl compounds, rubber.
Hazardous decomposition products: Carbon oxides. Hydrogen gas can be liberated from contact with metals.

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity LC50 Oral - Rat – 3,310 mg/kg Dermal – Rabbit – 1,060 mg/kg
LC50 Inhalation – Mouse 5,620 ppm / 1 hr.

Inhalation: May be harmful to the mucus membranes tissue and upper respiratory tract.

Skin contact: May be harmful if absorbed through skin.

Eye contact: Causes eye burns

Ingestion: May be harmful if swallowed.

Respiratory or skin sensitization: Not a respiratory or skin sensitizer.

Germ cell mutagenicity: No data available

Carcinogenicity: IARC, ACGIH, NTP, and 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: None.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity: Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) – 123.25 mg/l - 96 hr. estimated

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available. Product is water soluble, so will likely move within the aquifer.

Other adverse effects: None known.

SECTION 13 – DISPOSAL CONSIDERATION

Waste treatment methods:

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Concentrated product may be soaked up with absorbent material and landfilled in accordance with local, state, and federal regulations.

P501 Dispose of contents/container in accordance with local/state/federal regulations

Contaminated Packaging:

Do not reuse container for potable / food contact. Wash and rinse thoroughly before reuse / recycling

SECTION 14 – TRANSPORT INFORMATION (USDOT)

Proper shipping Name: Acetic Acid Solution, 10-50%
Hazard Class: (8), Corrosive Flammable Liquid
UN/ID No UN2790
Packing Group III
Reportable Quantity (RQ) 10,400 lbs (calculated)
Description: N/A



SECTION 15 – REGULATORY INFORMATION

US Federal Regulations:

This product is a Hazardous Chemical as defined by the OSH Hazard Communication Standard 29 CFR 1910.1200

TSCA (Toxic Substance Control Act): Components of this product are listed on the EPA TSCA Inventory.

CERCLA: (Comprehensive Emergency Response Compensation, and Liability Act): Product is listed in “List of Hazardous Substances and Reportable Quantities” (40 CFR 302.4)

RCRA: (Resource Conservation/Recovery Act): No

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Not listed

SECTION 16 – OTHER INFORMATION

Fire Protection Association (NFPA) Ratings:

NSF Certification: N/A



This Safety Data Sheet compiled from information provided by the raw chemical product manufacturers.

Disclaimer: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by the vendor for any damage or injury resulting from abnormal use, from failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.