



Safety Data Sheet (ACETIC ACID 99%)

1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:ACETIC ACID 99%
**CHEMICAL NAME/
CLASS/SYNONYMS:**Ethanoic acid, methane carboxylic acid, ethylic acid
PRODUCT NUMBER:.....ACETIC ACID 99%
UN/NA NUMBER:.....2789
CHEMICAL FAMILY:Acid, Organic
CAS NUMBER:.....64-19-7
FORMULA:H₂H₄O₂

COMPANY:**JMN Specialties, Inc.**
1100 Victory Drive – Westwego, Louisiana USA 70094
Phone (504) 341-3749, Fax (504) 341-5868
www.jmnspecialties.com

EMERGENCY PHONE:CALL CHEMTEL: Toll Free US & Canada: (800) 255-3924, Outside
USA +01-813-248-0585.

DATE PREPARED:January 18, 2021

2 – HAZARDS IDENTIFICATION

GHS HAZARD CLASSIFICATION:

Physical Hazards

Flammable Liquids:.....Category 3 - Flammable liquid and vapor

Corrosive Liquids:May be corrosive to metals

Health Hazards

Acute Toxicity (Oral):Category 4 - Harmful if swallowed, in contact with skin, inhaled

Skin Corrosion/Irritation:Category 1A - Causes severe skin burns and eye damage

Eye Damage/Irritation:Category 1 - Causes severe eye damage

Aspiration Hazard:Category 1 - May be fatal if swallowed and enters airways

Carcinogen:No Hazard Statement established for this Product

See Section 11 for additional Toxicological information

EMERGENCY OVERVIEW:

Pictograms:



Signal Word (GHS-US):**DANGER!**



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Hazard Statements:

Physical Hazards (GHS-US):

H226: Flammable liquid and vapour

Health Hazards (GHS-US):

H312+H332: Harmful in contact with skin or if inhaled

H314: Causes severe skin burns and eye damage

Environmental Hazards (GHS-US):

H402: Harmful to aquatic life

Precautionary Statements (GHS-US):

P101+102+103: If medical advice is needed, have product container or label at hand. Keep out of the reach of children. Read label before use.

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical / ventilating / lighting / equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection / face protection. P403+P235: Store in a well-ventilated place. Keep cool. P405 Store locked up.

Response Statements (GHS-US):

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P363 Wash contaminated clothing before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. P501: Dispose of contents/container: Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations, and product characteristics at time of disposal.

TOTAL VOC's:.....100%

3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT*	CAS NUMBER
Acetic Acid	> 99%	64-19-7
Water	< 1%	7732-18-5

*Any concentration shown as a range is to protect confidentiality or is due to batch variation.



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4 – FIRST-AID MEASURES

- BREATHING (INHALATION):**..... Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial resuscitation. Keep person warm and at rest. Treat symptomatically and supportively. Seek medical attention immediately. Qualified medical personnel should consider administering oxygen.
- SWALLOWING (INGESTION):**..... Give large amounts of fresh water or milk immediately. Do not give anything by mouth if person is unconscious or otherwise unable to swallow. If vomiting occurs, keep head below hips to prevent aspiration. Treat symptomatically and supportively. Seek medical attention immediately.
- EYES:** Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention. If liquid Acetic Acid or solutions containing Acetic Acid get into the eyes, flush eyes immediately with a directed stream of water for at least 30 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. **GET MEDICAL ATTENTION IMMEDIATELY.** Contact lenses should not be worn when working with this chemical.
- SKIN (DERMAL):** Remove contaminated clothing and wash affected skin with soap and water. If persistent irritation occurs, obtain medical attention. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop.
- NOTE TO PHYSICIAN:** Inhalation: Consider administration of corticoid spray. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.



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5 – FIRE-FIGHTING MEASURES

GENERAL FIRE HAZARDS:Emergency responders in the danger area should wear bunker gear and self-contained breathing apparatus for fires beyond the incipient stage (29CFR 1910.156). In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Contact with water may generate heat. Isolate damage area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from danger area if it can be done with minimal risk. Fires involving small amounts of combustibles may be smothered with suitable dry chemicals. Use water on combustibles burning but avoid using water directly on acid as it results in evolution of heat and causes splattering.

AUTOIGNITION TEMP:..... 905°F (485°C)

EXTINGUISHING MEDIA:.....Fires involving small amount of combustibles may be smothered with suitable dry chemical, soda ash, lime, sand or CO₂. Use water on combustibles burning in vicinity of this material but use care as water applied directly to this acid result in evolution of heat and causes splattering. Water may be ineffective in fighting the fire. Use water spray to keep fire-exposed containers cool.

SPECIAL FIRE FIGHTING

PROCEDURES:.....Acetic Acid at a high concentration can cause very serious damage upon contact. It burns the cornea and can lead to permanent blindness if splashed onto eyes. Spilled product on ground may be slippery. Accordingly, safety precautions should be strictly observed when handling or cleaning it when spilled as the result of a fire.

UNUSUAL FIRE AND

EXPLOSION HAZARDS:.....Containers may explode from internal pressure if confined to fire. Cool with water spray.

6 – ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:Wear appropriate personal protective equipment before approaching spill site. For small spills, dilute with water to sewer if allowed by local and state regulations. If unable to wash product with water, absorb with inert material (sand or other approved material) and dispose of in accordance with applicable regulations.



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WASTE DISPOSAL:.....Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

RCRA STATUS:.....If discarded in its purchased form, this product is considered a RCRA hazardous waste. It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product should be classified as a hazardous waste. (40CFR261.20-24).

7 – HANDLING and STORAGE

STORAGE:..... Keep in a tightly closed container, stored in a cool, dry, ventilated area below 44°C (110°F). Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Drum must not be washed out or used for other purposes.

HANDLING:.....Avoid contact with eyes, skin and clothing. Do not inhale vapors and fumes. Wash thoroughly after handling. Use only with adequate ventilation. Do not take internally. For industrial use only.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

HAZARDOUS INGREDIENT

Acetic Acid
Water

PEL

10 ppm
None Established

TLV-TWA

10 ppm
None Established





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EXPOSURE CONTROLS:..... Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

RESPIRATORY PROTECTION:..... If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information. Self-Contained Breathing Apparatus may be required for use in confined or enclosed spaces.

PROTECTIVE CLOTHING:..... **Eye/face protection:** Wear chemical goggles; face shield (if splashing is possible). **Skin protection:** Chemical resistant, impermeable gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron or chemical suit and chemical resistant boots are recommended.

ADDITIONAL MEASURES:..... Avoid contact with the skin and avoid breathing vapors. Do not eat, drink, or smoke in work area. Wash hands before eating, drinking, or using restroom. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

9 – PHYSICAL / CHEMICAL PROPERTIES

BOILING POINT:..... 244.4°F (118°C)
FREEZING POINT:..... 62°F (16.6°C)
FLASHPOINT:102.2°F (39°C)
UPPER FLAME LIMIT (%):.....19.9%
LOWER FLAME LIMIT (%):.....4%
VAPOR PRESSURE:11.4 mm Hg @ 20°C
VAPOR DENSITY (AIR=1):.....2.10 (Air=1)
SPECIFIC GRAVITY:1.05



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pH:2.4 (6%)
SOLUBILITY IN WATER:.....100%
VOLATILITY
INCLUDING WATER:8.757 pounds per gallon
MOLECULAR WEIGHT:.....60.04
EVAPORATION RATE:< 1
PHYSICAL STATE:.....Liquid
COLOR:Clear
ODOR:Irritating/pungent odor. Vinegar odor

10 – STABILITY and REACTIVITY

STABILITY:Stable
HAZARDOUS DECOMP.:Will not occur
INCOMPATIBILITY:May react violently with alkalis. May react with bases, copper, silver, mercury, magnesium, zinc and their alloys.
HAZARDOUS REACTIONS:.....On heating: release of corrosive/combustible gases/vapours (acetic acid vapours). Upon combustion: CO and CO₂ are formed. Violent to explosive reaction with many compounds e.g.: with (strong) oxidizers: (increased) risk of fire/explosion. Reacts violently with (some) bases. Reacts with (some) metals: release of highly flammable gases/vapours (hydrogen).

11 – TOXICOLOGICAL INFORMATION

THRESHOLD LIMIT VALUE:.....10 ppm
OSHA PEL:.....10 ppm
LISTED CARCINOGEN:.....Acetic Acid has produced no genetic changes in standard tests using bacterial cells.

MEDICAL CONDITION

AGGRAVATED:.....Overexposure to Acetic Acid mist may cause lung damage and aggravate pulmonary conditions. Contact of Acetic Acid with skin may aggravate diseases such as eczema and contact dermatitis.

INFORMATION ON ACUTE TOXICOLOGICAL EFFECTS

ORAL

Product:Corrosive. Causes serious burns of the mouth or perforation of the esophagus or stomach. May be fatal if swallowed.

DERMAL

Product:Corrosive. Splashes on the skin will cause skin burns. Direct contact can be severely irritating to the skin and may result in redness, swelling, burns and possible severe skin damage.



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INHALATION

Product:Corrosive. May be harmful or fatal if inhaled. May cause severe irritation and burns of the nose, throat and respiratory tract.

REPEATED DOSE TOXICITY

Product:Acetic Acid has produced no genetic changes in standard tests using bacterial cells. No data on other effects on Humans.

SKIN CORROSION / IRRITATION

Product:The results of single exposure tests indicate that exposure of acetic acid is slightly toxic after skin application. Following a 24-hour exposure, irreversible eye and skin damage is possible.

SERIOUS EYE DAMAGE / IRRITATION

Product:Corrosive. Direct contact with the liquid or exposure to vapors or mists may cause stinging, tearing, redness, swelling, corneal damage and irreversible eye damage. Splashes in the eyes will cause severe burns. Contact lenses should not be worn when working with this chemical.

RESPIRATORY OR SKIN SENSITIZATION

Product:Repeated exposure of workers to the mist causes chronic conjunctivitis, tracheobronchitis, stomatitis, and dermatitis.

MUTAGENICITY

IN VITRO

Product:Salmonella typhimurium assay (Ames test), Bacterial Reverse Mutation Assay : negative +/- activation. Chromosomal aberration, In vitro Mammalian Chromosome Aberration Test : negative +/- activation

IN VIVO

Product:Chromosomal aberration Inhalation - vapor (Rat): negative
Read-across from a similar material.

Specified Substance(s)

Information as provided by manufacturer

Acetic Acid

CARCINOGENICITY

Product:NOT a suspected Human carcinogen.

REPRODUCTIVE TOXICITY

Product:Based on the available test data, not expected to cause adverse effects on reproduction.



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SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE

Product:..... **GENERAL:** This product contains acids that are corrosive and can cause severe and painful burns on contact with any part of the body or if taken internally. The mucous membranes of the eyes and the upper respiratory tract are especially susceptible to these irritating effects. **INHALATION:** Inhalation of excessive concentrations of mist or vapor can cause severe irritation of the upper respiratory tract, resulting in coughing, burning of the throat, and a choking sensation. If inhaled deeply, edema of the lungs may occur. **EYES:** Contact with this product, either in gas or in solution, can cause severe irritation and painful burns of the eyes and eyelids. The acid **MUST** be removed quickly with thorough irrigation with water or there may be prolonged or permanent visual impairment or total loss of sight. **SKIN:** Concentrated solutions are destructive to clothing and on contact with skin, can cause severe burns unless promptly washed off. **INGESTION:** This product, when swallowed, can cause severe burns of the mucous membranes of the mouth, esophagus and stomach.

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE

Product:The effects of long-term, low-level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposure. This product may aggravate existing eye, skin, and respiratory conditions.

ASPIRATION HAZARD

Product:Droplets of the product aspirated into the lungs through ingestion or vomiting may cause chemical pneumonia.

OTHER ADVERSE EFFECTS

Product:To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Handle in accordance with good industrial hygiene and safety practice.

12 – ECOLOGICAL INFORMATION

ACUTE TOXICITY

FISH

Product:LC-50 (Fathead Minnow, 96 h): 300.82 mg/l

AQUATIC INVERTEBRATES

Product:EC-50 (daphnid, 48 h): > 300.82 mg/l

CHRONIC TOXICITY

FISH

Product:No data available

AQUATIC INVERTEBRATES

Product:NOEC/NOEL: >10 - <100 mg/L (based on similar products / components)

TOXICITY TO AQUATIC PLANTS

Product:EC-50 (Alga, 72 h): 300.82 mg/l



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PERSISTENCE AND DEGRADABILITY

BIODEGRADATION

Product:Readily biodegradable in water. Inherently biodegradable.
Biodegradable in the soil.

BIOLOGICAL OXYGEN DEMAND

Product:BOD-5: 340 - 880 mg/g, BOD-20: 900 mg/g

CHEMICAL OXYGEN DEMAND

Product:1,030 mg/g

BOD / COD RATIO

Product:No data available

BIOACCUMULATIVE POTENTIAL

Product:Bioaccumulation: not applicable.

MOBILITY IN SOIL

Product:Known or predicted distribution to environmental compartments, Acetic Acid: 0.062 (QSAR model).

RESULTS OF PBT AND mPvB ASSESSMENT

Product:Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria.
Not fulfilling vPvB (very persistent, very bioaccumulative) criteria.

OTHER ADVERSE EFFECTS

Product:No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential or global warming potential) are expected from this product.

13 –DISPOSAL CONSIDERATIONS

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14 – TRANSPORTATION INFORMATION

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.



UN/NA NUMBER:.....2789
PROPER SHIPPING NAME:..... Acetic acid, glacial (with more than 80 percent acid, by mass)
HAZARD CLASS:.....8 (3)
PACKAGING GROUP :.....II
LETTER:.....C (Corrosive substances)
ENVIRONMENTAL HAZARD:Acetic Acid is, with high probability, not acutely harmful to aquatic life and it does not accumulate in the food chain.
REPORTABLE QUANTITY:.....5000 pounds (2267.96 kilograms)

15 - REGULATIONS

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System. This SDS complies with 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD). **IMPORTANT:** Read this SDS before handling & disposing of this product. Pass this information on to employees, customers, & users of this product.

EPA SRA Title III Chemical Listings:

TSCA STATUS:This product is listed on the TSCA inventory. If this product is a blend, all ingredients in the product are listed on the TSCA Inventory List. Any impurities present in this product are exempt from listing.
SECTION 302:None of the chemicals in this product have a Threshold Planning Quantity (TPQ).
SECTION 304:Not Listed
SECTION 312:Acetic Acid
SARA SECTION 313:Not Listed as per the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.
ACUTE:Yes
CHRONIC:No
FIRE:Yes
PRESSURE:No
REACTIVE:No
CLEAN WATER ACT:.....ACETIC ACID (CAS# 64-19-7)



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IMDG – International Marine Dangerous Goods Code

UN 2789 ACETIC ACID, GLACIAL 8 (3) PG II. EmS F-E, S-C. Marine Pollutant: No. Static Accumulator: No.

IATA

UN 2789 ACETIC ACID, GLACIAL 8 (3) PG II

DEA Chemical Trafficking Act: ..No

Homeland Security Regulated ..This product does not contain any reportable DHS chemicals.

California Proposition 65.....This product contains the following Proposition 65 chemicals:

Component.....This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Cal Prop 65..... Not Applicable/Not Available

Cal Prop 65 NSRL.....No Significant Risk Level

Category..... Not Applicable/Not Available

US State Right to Know (RTK)

Component.....Chemical not Listed

MassachusettsNo

New JerseyNo

PennsylvaniaNo

IllinoisNo

Rhode Island.....No

****RTK Chemical(s)**Chemical not Listed

Canada NPRIChemical not Listed

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): All ingredients in this product are listed on the DSL. Any impurities present in this product are exempt from listing.

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): All ingredients in this product are listed on AICS or otherwise complies with NICNAS.

MITI (Japanese Handbook of Existing and New Chemical Substances): All ingredients in this product are listed in the Handbook or has been approved in Japan by new substance notification.

ECL (Korean Toxic Substances Control Act): All ingredients in this product are listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.KE-04134

Philippines Inventory (PICCS): All ingredients in this product are listed on the Philippine Inventory or otherwise complies with PICCS.

Inventory of Existing Chemical Substances in China: All ingredients in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).



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16 – OTHER INFORMATION

HMIS*

HEALTH		3
FLAMMABILITY		2
REACTIVITY		0
PERSONAL PROTECTION		H

**HMIS®HAZARD INDEX: 0=Minimal Hazard, 1=Slight Hazard, 2=Moderate Hazard, 3=Serious Hazard, 4=Severe Hazard. HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS and product label must be considered.*

ND = No Data, NA = Not Applicable/Not Available, ≤ = Less than or equal to, ≥ = Greater than or equal to

REVISION STATEMENT: Changes have been made throughout this Safety Data Sheet (SDS). Please read the entire document. Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and The Globally Harmonized System of Classification and Labeling of Chemicals (GHS) by the Company Health and Risk Assessment Unit.

DISCLAIMER:

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, the Company makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving this Safety Data Sheet (SDS) will make their own determination as to its suitability for their intended purposes prior to use. Since the product is within the exclusive control of the user, it is the user's obligation to determine the conditions of safe use of this product. Such conditions should comply with all Federal and State Regulations concerning the Product. It must be recognized that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. **NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.**

*****This is the last page of this SDS*****