

HEALTH	3
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Acetic Acid, Natural
Product Number	0200600
CAS-No.	64-19-7

1.2 Product Recommended Use

Flavorings

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA
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Telephone	845-496-6065
Fax	845-496-6248

1.4 Emergency Telephone Number

1-800-535-5053
International - 1-352-323-3500 collect

Section 2: HAZARD(s) IDENTIFICATION

2.1 Classification of substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)	Flammable liquids (Category 3), H226 Skin Corrosion (Category 1A), H314 Serious eye damage (Category 1), H318
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2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

Danger

Hazard Statement(s)

H226	Flammable liquid and vapor
H314	Causes severe skin burns and eye damage

Precautionary Statement(s)

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
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF IN SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician
P363	Wash contaminated clothing before reuse
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.
P403+P235	Store in a well ventilated place. Keep cool.
P501	Dispose of contents/container to an approved waste disposal plant.

2.3 HNO₃ (Hazards not otherwise classified or not covered by GHS) None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	Glacial acetic acid
Formula	C ₂ H ₄ O ₂
Molecular Weight	60.05 g/mol
CAS-No	64-19-7
EC-No.	200-580-7
Index No.	607-002-00-6

Hazardous Components

Component	Classification	Concentration
Acetic Acid	Flammable liquids (3), H226 Skin Corrosion (1A), H314 Serious eye damage (1), H318	90-100%

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Inhalation	Provide fresh air; keep at rest and at a comfortable position to breathe. Consult a physician
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water. Consult a physician
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes, contact physician/ Continue rinsing during transport to hospital.
Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Clothing contamination:	Remove contaminated clothing and wash before reuse.

4.2 Most important symptoms and effects both acute and delayed See section 2.2 and or section 11

4.3 Indication of any immediate medical attention and special treatment needed. No data available

Section 5: FIREFIGHTING MEASURES

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| 5.1 Extinguishing Media
Suitable Extinguishing Media | Use water spray, alcohol resistant foam, dry chemical or carbon dioxide |
| 5.2 Special hazards arising from the substance or mixture | Carbon oxides |
| 5.3 Advice for fire fighters | Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes under fire conditions. |
| 5.4 Further information | Use water spray to cool unopened containers. |

Section 6: ACCIDENTAL RELEASE MEASURES

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| 6.1 Personal precautions, protective equipment and emergency procedures | Use personal protective equipment. Avoid breathing vapors. Mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. |
| 6.2 Environment precautions | Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system. Discharge into the environment must be avoided. |
| 6.3 Methods and materials for containment and clean up | Contain spillage. Wet Sweep up with broom and place in a suitable, closed container for disposal. |
| 6.4 Specific end use(s) | Apart from the uses mentioned in section 1.2, no other specific uses are stipulated. |

Section 7: HANDLING AND STORAGE

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| 7.1 Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition-No smoking. Take measures to prevent the buildup of electrostatic charge. |
| 7.2 Conditions for Safe storage | Keep container tightly closed in a dry, cool and well-ventilated place. Containers which have been opened must be carefully resealed and kept upright to prevent leakage. |
| 7.3 Specific End use(s) | Flavorings |

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Components	CAS-No	Value	Control Parameters	Basis
Acetic Acid	64-19-7	TWA	10 ppm	USA. ACGH Threshold Limit Values (TLV)
		Remarks: Eye & Upper Respiratory Tract Irritation; Pulmonary function		
		STEL	15 ppm	USA. ACGH Threshold Limit Values (TLV)
		Remarks: Eye & Upper Respiratory Tract Irritation; Pulmonary function		
		STEL	15 ppm 37 mg/m ³	USA. NIOSH Recommended Exposure Limits
		TWA	10 ppm 25 mg/m ³	USA. NIOSH Recommended Exposure Limits
		TWA	10 ppm 25 mg/m ³	USA. Occupational Exposure Limits (OSHA)- Table Z-1 Limits for Air Contaminants
The value in mg/m ³ is approximate				

8.2 Exposure Controls

Appropriate Engineering Controls Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.

Personal protective equipment

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situations of anticipated use by our customers. They should not be construed as offering an approval or any specific use scenario.

Eye/face protection Tightly fitting safety goggles. Face shield (8-in min). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection Wear chemically resistant Butyl rubber gloves, 0.3mm. Use proper glove removal techniques (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.

Body protection Complete suit of flame retardant, anti-static material, protecting against chemicals should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate, use a full face respirator with multi-purpose combination (U) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full faced supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (U) or CEN (EU).

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains/

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a	Appearance	Colorless to pink liquid
b	Odor	Pungent
c	Odor Threshold	No data available
d	pH	2.4 at 60.05 g/l
e	Melting Point /Freezing Point	Melting Point: 16.2°C
f	Boiling Point	117-118°C
g	Flash Point	40°C
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Upper explosion limit: 19.9% (V) Lower explosion limit: 4% (V)
k	Vapor pressure	73.3 hPa at 50°C 15.2 hPa at 20°C
l	Vapor density	No data available
m	Relative density @25°C	1.047-1.060
n	Solubility	Miscible in water, glycerin, and alcohol
o	Partition coefficient: n-octanol/water	log Pow: -0.17
p	Auto-ignition Temp.	485.0°C
q	Decomposition Temp.	No data available
r	Viscosity	No data available
s	Explosive properties	No data available
t	Oxidizing properties	No data available
9.2	Other Safety Information	Surface tension: 28.8 mN/m at 10.0°C

Section 10: STABILITY AND REACTIVITY

10.1	Reactivity	No data available
10.2	Chemical Stability	Stable under recommended storage conditions
10.3	Possibility of Hazardous reactions	No data available
10.4	Conditions to avoid	Heat, Flames and Sparks
10.5	Incompatible materials	Oxidizing agents, Soluble carbonates and phosphates, Hydroxides, Metals, Peroxides, Permanganates; e.g. potassium, permanganate, Amines, Alcohols, Nitric Acid.
10.6	Hazardous decomposition products	No data available
10.7	Further Information	No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50-Oral- Rat 3,310 mg/kg

LC50-Inhalation-Mouse

5,620 ppm 1 h

Remarks: Sense Organs and Special Senses: Nose, Eye, Ear and Taste: Eye: Conjunctive irritation, Other: Blood: Other changes

LC50 Inhalation- Rat

11.4 mg/l

Safety Data Sheet

LD50-Dermal-Rabbit	1,112 mg/kg
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	Rabbit: Corrosive to eyes
Respiratory or skin sensitization	No data available
Germ Cell mutagenicity	No data available
Carcinogenicity	
	IARC No component of this product, present levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	ACGIH No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
	NTP No component of this product, present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
	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
Teratogenicity	No data available
Specific target organ toxicity-single exposure (GHS)	No data available
Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available
Potential Health effects	Material is extremely destructive to tissues of the mucous membranes and upper respiratory tract, eyes and skin.
Signs and Symptoms of Exposure	Spasm, inflammation and edema of the larynx and bronchi; pneumonitis, pulmonary edema, burning sensation. Cough, wheezing, laryngitis. Shortness of breath, headache, nausea, vomiting. Ingestion or inhalation of concentrated acetic acid causes damage to tissues of the respiratory and digestive tracts. Symptoms include: hematemesis, bloody diarrhea, edema and or perforation of the esophagus and pylorus, pancreatitis, hematuria, anuria, uremia, albuminuria, hemolysis, convulsion, bronchitis, pulmonary edema, pneumonia, cardiovascular collapse, shock and death. Direct contact or exposure to high concentrations of vapor with skin or eyes can cause: erythema, blisters, and tissue destruction with slow healing, skin blackening, hyperkeratosis, fissures, corneal erosion, opacification, iritis, conjunctivitis, and possible blindness. Stomach irregularities-Based on Human Evidence. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Synergistic effects	No data available
RTECS:	AF1225000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity	<p><u>To Fish:</u> LC50-Semi-static Test: Oncorhynchus mykiss (rainbow trout) >1,000 mg/l 96 h (OECD Test Guideline 203)</p> <p><u>To daphnia and other aquatic invertebrates</u> EC50-Daphnia magna (Water flea) >300.82 mg/l 48 h (OECD Test Guideline 202)</p>
12.2 Persistence and degradability	<p>Biodegradability: Aerobic: Exposure time 30 d Result: 99%-Readily biodegradable Remarks: Expected to be biodegradable Biochemical Oxygen: 880 mg/g Demand (BOD)</p>
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required / not conducted
12.6 Other adverse effects	No data available

Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods	
Product:	According to local regulations
Packaging	According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)	UN Number: 2789	Class: 8 (3)	Packing Group II
Proper Shipping Name	Acetic Acid, Glacial		
Reportable Quantity (RQ)	5000 lbs		
Marine pollutant	No		
Poison Inhalation Hazard	No		
IMDG	UN Number: 2789	Class: 8 (3)	Packing Group II EMS-No: F-E, S-C
Proper Shipping Name	ACETIC ACID, GLACIAL		
Marine Pollutant	No		
IATA	UN Number: 2789	Class: 8 (3)	Packing Group II
Proper Shipping Name	Acetic Acid, Glacial		
Further Information	No data available		

Section 15: REGULATORY INFORMATION

Safety Data Sheet

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	Fire Hazard, Acute Health Hazard, Chronic Health Hazard		
Massachusetts Right to Know components	Acetic Acid	CAS# 64-19-7	Rev. Date: 4/24/1993
Pennsylvania Right to Know components	Acetic Acid	CAS# 64-19-7	Rev. Date: 4/24/1993
New Jersey Right to Know components	Acetic Acid	CAS# 64-19-7	Rev. Date: 4/24/1993
California Prop. 65 components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.		

Section 16: OTHER INFORMATION

HMIS Rating

Health hazard	3
Chronic Health Hazard*	
Flammability	2
Reactive Hazard	0

Further Information

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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