

Acetic acid**07692-250ML**

Version 1.2

Revision Date 09/18/2019

Print Date 05/11/2023

SECTION 1. IDENTIFICATION

Product name : Acetic acid

Number : 000000020238

Product Use Description : Laboratory chemicals, Industrial use

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

For more information call : 1-800-368-0050
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid

Color : colourless

Odor : stinging

Classification of the substance or mixture

Classification of the substance or mixture : Flammable liquids, Category 3
Skin corrosion, Category 1A
Serious eye damage, Category 1

GHS Label elements, including precautionary statements

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Symbol(s)

:



Signal word

:

Danger

Hazard statements

:

Flammable liquid and vapour.
Causes severe skin burns and eye damage.

Precautionary statements

:

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
Wash contaminated clothing before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

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Carcinogenicity

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, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTSFormula : C₂H₄O₂

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Acetic acid	64-19-7	100.00 %

SECTION 4. FIRST AID MEASURES

Inhalation : Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician immediately.

Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician immediately.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Notes to physician

Most important symptoms/effects, acute and delayed : No information available.

Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

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SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO₂)
Dry chemical
Alcohol-resistant foam
Water mist
Cool closed containers exposed to fire with water spray.
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during firefighting : Flammable.
Vapours may form explosive mixtures with air.
Vapours are heavier than air and may spread along floors.
Vapors may travel to areas away from work site before igniting/flashing back to vapor source.
In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
- Special protective equipment for firefighters : In the event of fire and/or explosion do not breathe fumes.
Wear self-contained breathing apparatus and protective suit.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In the event of fire, cool tanks with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Wear personal protective equipment.
Immediately evacuate personnel to safe areas.
Keep people away from and upwind of spill/leak.
Remove all sources of ignition.
Ensure adequate ventilation.
Do not breathe vapours or spray mist.
Do not get in eyes, on skin, or on clothing.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
Discharge into the environment must be avoided.

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Do not flush into surface water or sanitary sewer system.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Methods and materials for containment and cleaning up : Ventilate the area.
No sparking tools should be used.
Use explosion-proof equipment.
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

SECTION 7. HANDLING AND STORAGE**Handling**

Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Keep container tightly closed.
Do not smoke.
Do not swallow.
Do not breathe vapours or spray mist.
Do not get in eyes, on skin, or on clothing.

Advice on protection against fire and explosion : Keep away from fire, sparks and heated surfaces.
Take precautionary measures against static discharges.
Ensure all equipment is electrically grounded before beginning transfer operations.
Use explosion-proof equipment.
Keep product and empty container away from heat and sources of ignition.
No sparking tools should be used.

Storage

Conditions for safe storage, including any incompatibilities : Store in area designed for storage of flammable liquids. Protect from physical damage.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Keep away from heat and sources of ignition.
Keep away from direct sunlight.

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Store away from incompatible substances.
Container hazardous when empty.
Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
- Engineering measures : Use with local exhaust ventilation.
Prevent vapour buildup by providing adequate ventilation during and after use.
- Eye protection : Goggles or face shield, giving complete protection to eyes
- Hand protection : Rubber gloves
Neoprene gloves
Gloves must be inspected prior to use.
Replace when worn.
- Skin and body protection : Acid-resistant protective clothing
Rubber or plastic apron
Rubber or plastic boots
- Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
For rescue and maintenance work in storage tanks use self-contained breathing apparatus.
Use NIOSH approved respiratory protection.
- Hygiene measures : Remove and wash contaminated clothing before re-use.
Keep working clothes separately.
Wash hands before breaks and immediately after handling the product.
When using, do not eat, drink or smoke.
Do not get in eyes, on skin, or on clothing.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
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Acetic acid	64-19-7	TWA : Time weighted average	(10 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Acetic acid	64-19-7	STEL : Short term exposure limit	(15 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Acetic acid	64-19-7	REL : Recomm ended exposure limit (REL):	25 mg/m3 (10 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Acetic acid	64-19-7	STEL : Short term exposure limit	37 mg/m3 (15 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Acetic acid	64-19-7	PEL : Permissi ble exposure limit	25 mg/m3 (10 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Acetic acid	64-19-7	TWA : Time weighted average	25 mg/m3 (10 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

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Color	: colourless
Odor	: stinging
Odor threshold	: Note: no data available
pH	: Note: acidic
Melting point/range	: 16 °C
Boiling point/boiling range	: 118 °C at 1,013 hPa
Flash point	: 104 °F (40 °C) Method: DIN 51755
Evaporation rate	: Note: no data available
Flammability	: Not applicable
Lower explosion limit	: 4 %(V)
Upper explosion limit	: 17 %(V)
Vapor pressure	: 16 hPa at 20 °C(68 °F) 74 hPa at 50 °C(122 °F)
Vapor density	: Note: no data available
Density	: ca. 1.05 g/cm ³ at 20 °C
Water solubility	: Note: completely miscible

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Partition coefficient: n-octanol/water	: log Pow: -0.17
Ignition temperature	: 485 °C
Viscosity, dynamic	: ca. 1.22 mPa.s at 20 °C
Viscosity, kinematic	: Note: no data available
Molecular weight	: 60.05 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur. Gives off hydrogen by reaction with metals.
Conditions to avoid	: Heat, flames and sparks. Keep away from direct sunlight.
Incompatible materials	: Strong bases Metals Amines Cyanides Sulphides Nitric acid Hydrogen peroxide, aqueous solution Alkaline carbonates
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

Acetic acid : LD50: 3,530 mg/kg
Species: Rat

Acute inhalation toxicity

Acetic acid : LC50: 11.4 mg/l
Exposure time: 4 h
Species: Rat

Acute dermal toxicity

Acetic acid : LD50: 1,060 mg/kg
Species: Rabbit

Skin irritation

Acetic acid : Species: Rabbit
Result: Causes burns.
Classification: Corrosive

Eye irritation

Acetic acid : Species: Rabbit
Result: Risk of serious damage to eyes.
Classification: Corrosive

Genotoxicity in vitro

: Cell type: Chinese Hamster Ovary Cells
Metabolic activation: with and without metabolic activation
Result: negative
Method: OECD Test Guideline 473

: Test Method: Ames test
Cell type: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative
Method: OECD Test Guideline 471

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Genotoxicity in vivo : Test Method: Chromosome aberration test
Species: Rat
Method: Mutagenicity (micronucleus test)
Result: negative

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish : LC50: > 1,000 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)
Test substance: REACH dossier "read-across"
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : static test
LC50: > 1,000 mg/l
Exposure time: 48 h
Species: Daphnia (water flea)
Test substance: REACH dossier "read-across"
Method: OECD Test Guideline 202

Toxicity to algae : static test
EC50: > 1,000 mg/l
Exposure time: 72 h
Species: Skeletonema costatum (marine diatom)
Test substance: REACH dossier "read-across"

Elimination information (persistence and degradability)

Bioaccumulation : Note: Bioaccumulation is unlikely.

Further information on ecology**Ecotoxicology Assessment**

Results of PBT assessment

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This substance is not considered to be persistent, bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT UN/ID No. : UN 2789
Proper shipping name : Acetic acid, glacial
Class : 8
Packing group : II
Hazard Labels : 8 (3)

IATA UN/ID No. : UN 2789
Description of the goods : Acetic acid, glacial
Class : 8
Packaging group : II
Hazard Labels : 8 (3)
Packing instruction (cargo aircraft) : 855
Packing instruction (passenger aircraft) : 851
Packing instruction (passenger aircraft) : Y840

IMDG UN/ID No. : UN 2789
Description of the goods : Acetic acid, glacial
Class : 8
Packaging group : II
Hazard Labels : 8 (3)
EmS Number : F-E, S-C
Marine pollutant : no
IMDG Code segregation group 1 – ACIDS,

SECTION 15. REGULATORY INFORMATION

Inventories

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US. Toxic Substances Control Act	: On TSCA Inventory
Australia. Industrial Chemical (Notification and Assessment) Act	: On the inventory, or in compliance with the inventory
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	: All components of this product are on the Canadian DSL
Japan. Kashin-Hou Law List	: On the inventory, or in compliance with the inventory
Korea. Existing Chemicals Inventory (KECI)	: On the inventory, or in compliance with the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	: On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances (IECSC)	: On the inventory, or in compliance with the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	: On the inventory, or in compliance with the inventory

National regulatory information

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

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**CERCLA Reportable
Quantity** : 5000 lbs**California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.**Massachusetts RTK** : Acetic acid 64-19-7**New Jersey RTK** : Acetic acid 64-19-7**Pennsylvania RTK** : Acetic acid 64-19-7**SECTION 16. OTHER INFORMATION**

	HMIS III	NFPA
Health hazard	: 3	3
Flammability	: 2	2
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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