

Acetic acid concentrate**38050-1EA**

Version 1.1

Revision Date 12/06/2021

Print Date 05/15/2023

SECTION 1. IDENTIFICATION

Product name : Acetic acid concentrate

Number : 000000020831

Product Use Description : Laboratory chemicals

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 : characteristic

Classification of the substance or mixture

Classification of the substance or mixture : Corrosive to metals, Category 1
Skin corrosion, Category 1C
Serious eye damage, Category 1

GHS Label elements, including precautionary statements

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Symbol(s)

:



Signal word

: Danger

Hazard statements

: May be corrosive to metals.
Causes severe skin burns and eye damage.

Precautionary statements

: **Prevention:**
Keep only in original container.
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.

Absorb spillage to prevent material damage.

Storage:

Store locked up.

Store in corrosive resistant container with a resistant inner liner.

Disposal:

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

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.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTSFormula : C₂H₄O₂

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Water	7732-18-5	>=80.00 - <90.00 %
Acetic acid	64-19-7	>=10.00 - <20.00 %

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area. First aider needs to protect himself.

Inhalation : Move to fresh air. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician immediately.

Skin contact : After contact with skin, wash immediately with plenty of water. 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. Protect unharmed eye. Call a physician immediately.

Ingestion : Rinse mouth with water. When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

Notes to physician

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

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

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry powder

Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
carbon oxides (CO, CO₂).

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons must be kept away.
Ensure adequate ventilation.

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Should not be released into the environment.
Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material.
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE**Handling**

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

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Conditions for safe storage, including any incompatibilities : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Do not breathe vapours or spray mist.
Do not get in eyes, on skin, or on clothing.

Engineering measures : Use with local exhaust ventilation.

Eye protection : Safety goggles

Hand protection : Impervious butyl rubber gloves
Gloves must be inspected prior to use.
Replace when worn.

Skin and body protection : Wear suitable protective equipment.
Wear as appropriate:
acid-proof protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures : Take off all contaminated clothing immediately.
Remove and wash contaminated clothing before re-use.
Keep working clothes separately.
Wash hands before breaks and at the end of workday.
When using do not eat or drink.

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Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
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	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	37 mg/m3 (15 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Acetic acid	64-19-7	REL : Recommended 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	PEL : Permissible 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

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Color	: colourless
Odor	: characteristic
Odor threshold	: Note: No data available
Melting point/range	: Note: No data available
Boiling point/boiling range	: Note: No data available
Flash point	: Note: No data available
Evaporation rate	: Note: No data available
Lower explosion limit	: Note: No data available
Upper explosion limit	: Note: No data available
Vapor pressure	: Note: No data available
Vapor density	: Note: No data available
Density	: Note: No data available
Water solubility	: Note: soluble
Partition coefficient:	: Note: No data available

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n-octanol/water

Ignition temperature : Note: No data available

Decomposition temperature : Note: Carbon oxides

Viscosity, dynamic : Note: No data available

Viscosity, kinematic : Note: No data available

Molecular weight : 60.05 g/mol

Corrosivity : Note: Corrosive to metals

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Corrosive in contact with metals

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:
carbon oxides (CO, CO₂).**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : Note: No data available

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Acute inhalation toxicity	: Note: No data available
Acute dermal toxicity	: Note: No data available
Skin irritation	: Note: No data available
Eye irritation	: Note: No data available
Genotoxicity in vitro	: Cell type: Chinese Hamster Ovary Cells Metabolic activation: with and without metabolic activation Result: negative Method: OECD Test Guideline 473 Test substance: anhydrous substance
	: Test Method: Ames test Cell type: Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: negative Method: OECD Test Guideline 471 Test substance: anhydrous substance
Genotoxicity in vivo	: Test Method: Chromosome aberration test Species: Rat Method: Mutagenicity (micronucleus test) Test substance: anhydrous substance 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: anhydrous substance Method: OECD Test Guideline 203
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Toxicity to daphnia and other aquatic invertebrates : static test
LC50: > 1,000 mg/l
Exposure time: 48 h
Species: Daphnia (water flea)
Test substance: anhydrous substance
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: anhydrous substance

Elimination information (persistence and degradability)

Bioaccumulation : Note: Bioaccumulation is unlikely.

Biodegradability : Result: rapidly biodegradable

Further information on ecology**Ecotoxicology Assessment**

Results of PBT assessment

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 2790
Proper shipping name : Acetic acid solution

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Class	8
Packing group	III
Hazard Labels	8

IATA

UN/ID No.	: UN 2790
Description of the goods	: Acetic acid solution
Class	: 8
Packaging group	: III
Hazard Labels	: 8
Packing instruction (cargo aircraft)	: 856
Packing instruction (passenger aircraft)	: 852
Packing instruction (passenger aircraft)	: Y841

IMDG

UN/ID No.	: UN 2790
Description of the goods	: Acetic acid solution
Class	: 8
Packaging group	: III
Hazard Labels	: 8
EmS Number	: F-A, S-B
Marine pollutant	: no
IMDG Code segregation group	1 – ACIDS,

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemicals Act (AIC), as amended : 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

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Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) : 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

US. EPA CERCLA Hazardous Substances (40 CFR 302) : The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the Reportable Quantity (RQ):

Reportable quantity: 5000 lbs
: Acetic acid 64-19-7

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 : Acute Health Hazard

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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	: 1	1
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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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group