

Acetic Acid, 0.25 to 10% v/v

Revision Date: 1/15/15

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier Trade name: Acetic Acid, 0.25 to 10% v/v
Product code(s): 3297, 3299, 3300, 3301, 3302, 3303, 3304,

1.2 Relevant identified uses Laboratory Reagent

Supplier: Astral Diagnostics Inc.
800-441-0366 Technical Service
Monday-Friday: 8:00 -5:00 PM

Synonym: None.

Material uses: Laboratory Reagent.

Validation date: 12/11/2013

In case of emergency: 800-424-9300 CHEMTREC (USA)
24 Hours/Day: 7 Days/Week

2. HAZARDS IDENTIFICATION

Emergency Overview

Potential Acute Health Effects:

May cause skin and eye irritation. Non-corrosive to respiratory tract (irritant). Repeated exposure may cause skin dryness or cracking.

Potential Chronic Health Effects:

Carcinogenic Effects, NA; Mutagenic Effects, Mutagenic for bacterial and yeast (acetic acid); Teratogenic Effects, NA; Developmental Effects, NA

Precautionary statement(s):

If in eyes or skin: Rinse with water for several minutes. Remove contact lenses, if present and rinse again.

Target Organs

Respiratory Tract

GHS Classification

Non-restricted

NFPA Rating

Health hazard: 1
Fire: 0
Reactivity Hazard: 0

HMIS Classification

Health hazard: 1
Flammability: 0
Physical hazards: 0

Potential Health Effects

Inhalation - Causes respiratory tract irritation.
Skin - Causes skin irritation.
Eyes - Causes eye irritation.
Ingestion - Potentially toxic if swallowed in large quantities.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	% by volume
Acetic Acid	64-19-7	~0.25% to 10% v/v
Water	7732-18-5	≥90

4. FIRST AID MEASURES

- Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with water for 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact:** Flush skin with water for 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation:** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion:** Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flammability of the product: Non-flammable

Extinguishing media: Use suitable media for surrounding materials. Use water fog, avoid direct stream.

Special exposure hazards: Avoid contact with strong oxidizers

Hazardous thermal decomposition products: Decomposition products: carbon dioxide, carbon monoxide

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment for surroundings.

Explosion hazards: Not-applicable

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation.

Environmental precautions: Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Contain spill area.

Spill: Prevent runoff. Contain and collect spillage with absorbent material e.g. sand, earth, vermiculite etc and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Dilute with water and mop-up or absorb with an inert dry material and place in an appropriate waste disposal container. Avoid contact with strong oxidizers.

7. HANDLING AND STORAGE

Handling: Do not get in eyes, on skin, clothing and avoid breathing vapors. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store in ventilated areas.

Storage: Store in a well-ventilated, cool area, in original container and protected from direct sunlight. Keep container tightly closed and sealed until ready for use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient: Acetic Acid 0.25% to 10% v/v

Exposure limits: Note, exposure limits are for glacial acetic acid, not 0.25 to 10% acetic acid. Limits have not been established for these concentration(s)

ACGIH TLV: TWA, 10ppm, STEL15ppm
OSHA PEL: TWA: 10ppm, STEL15ppm
NIOSH REL: TWA: 10ppm ,STEL15 ppm

Consult local authorities for acceptable exposure limits.

Engineering measures: Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne concentrations below any recommended threshold limits.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating and using the lavatory. Wash contaminated clothing before reusing.

Personal protection

Respiratory: If used in poorly ventilated areas, use a properly fitted, air-purifying or air-fed respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels.

Hands: Chemical-resistant neoprene gloves

Eyes: Safety eyewear; splash goggles

Skin: Lab coats for personal protective equipment and should be approved by a specialist before handling this product.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid.	Color:	Clear
Flash Point:	NA (Not Available)	Odor:	Characteristic vinegar
pH:	~2.4 to 3.0	Boiling/condensation point:	NA
Melting/freezing point:	NA	Relative density:	NA
Vapor pressure:	NA	Vapor density:	~1
Odor threshold:	NA	Evaporation rate:	NA
VOC:	NA		
Solubility:	Soluble in the following materials: water		

10. STABILITY AND REACTIVITY

Chemical stability: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Hazardous polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid: Elevated temperatures

Materials to avoid: Reactive or incompatible with: oxidizing materials, metals and acids.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50

no data available

Inhalation LC50

no data available

Dermal LD50

no data available

Other information on acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

Eyes: no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation May be toxic if inhaled. Causes respiratory tract irritation.

Ingestion May be toxic if swallowed.

Skin Toxic if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT (US) Not DOT controlled

IMDG Non-Hazardous

IATA Non-Hazardous

TDG Non-Hazardous

15. REGULATORY INFORMATION

United States

HCS Classification: Non Hazardous
Toxic material
Irritating material
Target organ effects

U.S. Federal regulations: **TSCA 8(b) inventory** (Toxic Substance Control Act): This product is listed on the TSCA Inventory.

DEA List I Chemicals (Precursor Chemicals): Not listed
DEA List II Chemicals (Essential Chemicals):

RTK: Acetic Acid CAS 64-19-7, Listed

Florida, Massachusetts, Minnesota, New Jersey, Pennsylvania, Rhode Island

CANADA

WHMIS (Canada): Not controlled under WHMIS (Canada)
Class D-2B: NA

Canadian lists:

CEPA DSL / CEPA NDSL: All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International regulations

International lists:

Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: All components are listed or exempted.

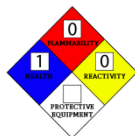
Korea inventory: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

16. OTHER INFORMATION

National Fire Protection Association (U.S.A.)



Notice to reader

This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labelling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Astral Diagnostics, Inc be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.