

Part Number: 1098

1. PRODUCT AND COMPANY IDENTIFICATION

- 1.1 Product Name:** Gallego Solution
Part Number: 1098
CAS-No.: Not applicable
SDS Number: 3010
- 1.2 Recommended Use:** Laboratory Chemicals
- 1.3 Company:** Newcomer Supply
 2505 Parview Road
 Middleton, WI 53562 USA
- Telephone:** 1-800-383-7799
Fax: 1-608-831-0866
Website: www.newcomersupply.com
Email: newly@newcomersupply.com

24 HOUR EMERGENCY CONTACT
 CALL CHEMTREC: 1-800-424-9300
 Contact CHEMTREC only in the event of
 an emergency involving a chemical spill,
 leak, fire, exposure or other accident.

2. HAZARD(S) IDENTIFICATION
2.1 Classification of the substance or mixture

GHS Classification, (in accordance with 29 CFR1910.1200)
 Acute toxicity (oral), Category 3
 Acute toxicity (dermal), Category 3
 Acute toxicity (inhalation), Category 1
 Skin irritation, Category 2
 Serious Eye Damage/Eye irritation, Category 2
 Skin sensitisation, Category 1
 Respiratory sensitization, Category 1
 Carcinogenicity, Category 1A
 Specific Target Organ Toxicity – Single exposure, Category 1
 Specific Target Organ Toxicity – Repeated exposure, Category 1
 Reproductive toxicity, Category 1B

2.2 GHS Label elements

Signal Word DANGER

Pictogram



Hazard Statement(s):

- Toxic if swallowed
- Toxic in contact with skin
- Fatal if inhaled
- Causes skin irritation
- Causes serious eye irritation
- May cause an allergic skin reaction
- May cause allergy or asthma symptoms or breathing difficulties if inhaled
- May cause cancer
- Causes damage to organs
- Causes damage to organs through prolonged or repeated exposure
- May damage fertility or the unborn child

Precautionary Statement(s):

Prevention:

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- In case of inadequate ventilation wear respiratory protection.

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- Wash skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- IF ON SKIN: Gently wash with plenty of soap and water.
- Take off contaminated clothing and wash before reuse.
- If skin irritation or a rash occurs: Get medical advice/attention.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
- If eye irritation persists get medical advice/attention.
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Rinse mouth.
- Specific treatment is urgent: see first aid measures in section 4.
- Immediately call a POISON CENTER or doctor/physician.

Storage:

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

Disposal:

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

2.3 Description of any hazards not otherwise classified None

2.4 >1% of mixture with unknown acute toxicity None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Hazardous Components

| Component | | Concentration |
|-----------|---------------------|---------------|
| Name | Formaldehyde | |
| CAS-No. | 50-00-0 | <1% |
| Name | Methyl Alcohol | |
| CAS-No. | 67-56-1 | <1% |
| Name | Glacial Acetic Acid | |
| CAS-No. | 64-19-7 | 1% |

4. FIRST-AID MEASURES

4.1 Description of necessary measures

Inhalation (breathing)

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact

IF ON SKIN: Gently wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. Immediately call a POISON CENTER or doctor/physician.

Eye Contact

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 or doctor/physician.

Ingestion (swallowed)

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IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and or effects, acute and delayed

The most important symptoms/effects are presented in Section 2 and or Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES
5.1 Suitable extinguishing media

Carbon dioxide, dry chemical, water spray, alcohol-resistant foam.

5.2 Specific hazards arising from the substance or mixture

No data available

5.3 Protective equipment and precautions for fire-fighters

Wear a positive-pressure self-contained breathing apparatus if necessary. Wear chemical resistant clothing as recommended by clothing manufacturer.

NFPA Rating

| | | |
|-----------|-----------|------------|
| Health | Fire | Reactivity |
| hazard: 3 | hazard: 0 | hazard: 0 |

6. ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment and emergency procedures

Apply personal protective equipment (see Section 8). Use in a properly ventilated area. Avoid breathing vapors. Avoid skin contact. Avoid eye contact. Wash hands after use. In case of large spill, remove personnel to a safe area.

6.2 Methods and material for containment and cleaning up

Apply personal protective equipment (see Section 8). Contain spill. Prevent further leakage if possible and safe to do so. Ensure proper ventilation. For small amounts, wipe or absorb spill using inert material and dispose of according to local regulations. For large amounts, evacuate area and limit access. Prevent entry of material into sewage drains and confined areas. Dispose of any contaminated materials according to local regulations.

7. HANDLING AND STORAGE
7.1 Precautions for safe handling

Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.

7.2 Conditions for safe storage, including any incompatibilities

Refer to Section 2.2 for proper storage temperature. Store the tightly closed container in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control Parameters

Components with limit values that require monitoring at the workplace

| Component | CAS-No. | Regulatory | Value | Parameters |
|--------------|---------|------------|-------|-----------------------------------|
| Formaldehyde | 50-00-0 | OSHA PEL | TWA | 0.75 ppm |
| | | OSHA PEL | STEL | 2 ppm |
| | | ACGIH TLV | C | 0.3 ppm (0.37 mg/m ³) |
| | | NIOSH REL | TWA | 0.016 ppm |

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| | | NIOSH REL | C | 0.1 ppm 15-minute |
|----------------|---------|------------|-------|----------------------------------|
| Component | CAS-No. | Regulatory | Value | Parameters |
| Methyl Alcohol | 67-56-1 | OSHA PEL | TWA | 200 ppm (260 mg/m ³) |
| | | ACGIH TLV | TWA | 200 ppm (262 mg/m ³) |
| | | ACGIH TLV | STEL | 50 ppm (328 mg/m ³) |
| | | NIOSH REL | TWA | 200 ppm (260 mg/m ³) |
| | | NIOSH REL | STEL | 250 ppm (325 mg/m ³) |

| Component | CAS-No. | Regulatory | Value | Parameters |
|-------------|---------|------------|-------|--------------------------------|
| Acetic Acid | 64-19-7 | OSHA PEL | TWA | 10 ppm (25 mg/m ³) |
| | | ACGIH TLV | TWA | 10 ppm (25 mg/m ³) |
| | | ACGIH TLV | STEL | 15 ppm (37 mg/m ³) |
| | | NIOSH REL | TWA | 10 ppm (25 mg/m ³) |
| | | NIOSH REL | STEL | 15 ppm (37 mg/m ³) |

8.2 Exposure Controls

Appropriate engineering controls

Use in a properly ventilated area. Remove/wash before reuse contaminated clothing. Wash hands upon exiting work premises. Use product in an appropriately designated fume hood. Take measures to keep concentrations below acceptable limits.

8.3 Personal Protective Equipment

Eye/Face protection

Wear chemical safety goggles and/or a full face shield if splashing is possible. Keep eye wash fountain nearby.

Skin Protection

Wear chemical-resistant gloves. Gloves should be resistant to components of product. Refer to glove manufacturer for appropriate type and glove thickness.

Body Protection

No data available

Respiratory Protection

Respirators should only be used if the employer has implemented a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing, and medical exams, as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134).

Formaldehyde: Where the potential exists for exposure over 0.016 ppm: use a NIOSH approved supplied-air respirator with a full facepiece operated in a pressure-demand or other positive-pressure mode. For increased protection use in combination with an auxiliary self-contained breathing apparatus or an emergency escape air cylinder.

Exposure to 20 ppm is immediately dangerous to life and health. If the possibility of exposure above 20 ppm exists, use a NIOSH approved self-contained breathing apparatus with a full facepiece operated in a pressure-demand or other positive-pressure mode equipped with an emergency escape air cylinder. In case of emergency, entry into unknown concentrations, or escape, wear a self-contained positive-pressure breathing apparatus.

Other Information

None

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9. PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties

| | |
|---|-------------------------------|
| Physical state | Translucent, colorless liquid |
| Odor | Mild vinegar odor |
| Odor threshold | No data available |
| pH | No data available |
| Melting point/freezing point | ca. 0°C (ca. 32°F) |
| Initial boiling point and boiling range | ca. 100°C (ca. 32°F) |
| Flash point | No data available |
| Evaporation rate | Evap. rate of water = 1; 1 |
| Flammability (solid, gas) | No data available |
| Upper flammability or explosive limits | No data available |
| Lower flammability or explosive limits | No data available |
| Vapor pressure | 18 mm Hg at 20°C |
| Vapor density | For water in air = 1; 1 |
| Relative density | Similar to water |
| Solubility(ies) | Infinitely soluble with water |
| Partition coefficient: n-octanol/water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | 1.222 (mPa)(s) at 20°C |

10. STABILITY AND REACTIVITY
10.1 Reactivity

No data available

10.2 Chemical stability

Stable in a closed container within label-specified storage temperature and expiration date.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Heat, sparks, open flame, and ignition sources.

10.5 Incompatible materials

Formaldehyde reacts violently with nitrogen oxides; oxidizing agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine and fluorine); mixtures of perchloric acid and aniline; nitromethane; magnesium carbonate; and hydrogen peroxide. Formaldehyde reacts with phenol and hydrogen chloride to form toxic bis(chloromethyl) ether. Formaldehyde is not compatible with strong acids (such as hydrochloric, sulfuric and nitric); strong bases (such as sodium hydroxide and potassium hydroxide); iodine; iron; silver; isocyanates; amines; anhydrides; and liquid oxygen.

10.6 Hazardous decomposition products

No data available

11. TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects
Inhalation exposure

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Formaldehyde: Difficulty in breathing was experienced at 10 to 20 ppm. Upper airway irritation and increased nasal airway resistance were reported at 0.1 to 25 ppm and lower airway and chronic pulmonary obstruction at 5 to 30 ppm. Inhaling formaldehyde can irritate the lungs. Higher exposures may cause a build-up of fluid in the lungs (pulmonary edema), a medical emergency. Glacial Acetic Acid: (Human data) Marked irritation of the nose, and upper respiratory tract which could not be tolerated for more than 3 minutes was noted at 816 to 1,226 ppm.

Oral exposure

Formaldehyde: Most subjects experience irritation of the throat at 1 to 3 ppm; many subjects cannot tolerate prolonged exposures to 4 to 5 ppm

Dermal exposure

No data available

Skin corrosion/irritation

Formaldehyde and glacial acetic acid are can severely irritate and burn the skin.

Serious eye damage/irritation

Formaldehyde: 10 to 20 ppm produces almost immediate eye irritation. Most subjects experience irritation of the eyes, nose, and throat at 1 to 3 ppm; many subjects cannot tolerate prolonged exposures to 4 to 5 ppm. Glacial acetic acid are can severely irritate and burn the eyes.

Respiratory or skin sensitization

It has been estimated that exposure for 5 to 10 minutes to 50 to 100 ppm might cause serious injury to the lower respiratory passages. Formaldehyde may cause a skin allergy and an asthma-like allergy. Formaldehyde may cause an asthma-like allergy. Future exposure can cause asthma attacks with shortness of breath, wheezing, coughing, and/or chest tightness. It has been stated that repeated exposures to high concentrations of glacial acetic acid may produce respiratory tract irritation with pharyngeal edema and chronic bronchitis.

Germ Cell mutagenicity

No data available

Reproductive toxicity

There is limited evidence that formaldehyde may damage the developing fetus and affect female fertility.

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Acute toxicity

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Formaldehyde:

LD50 rat oral 100 mg/kg

LD50 rat dermal 270 mg/kg

LC50 rat inhalation 0.48 mg/l/4 hours

Glacial Acetic Acid:

LD50 rat oral 3310 mg/kg

LD50 rabbit skin 1060uL/kg

LD50 mouse intravenous 525mg/kg

LC50 mouse inhalation 5620ppm/1H

Carcinogenicity

IARC: Formaldehyde: Group 1, carcinogenic to humans

NTP: Formaldehyde: Known human carcinogen

OSHA: Formaldehyde: Specifically regulated carcinogen

Additional information

RTECS: No data available

12. ECOLOGICAL INFORMATION
12.1 Ecotoxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS
13.1 Waste disposal methods
Contents

Dispose of contents in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of packaging in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION
14.1 DOT (US)
UN-Number No data available

Proper shipping name No data available

Hazard class No data available

Packing group No data available

Environmental hazards No data available

15. REGULATORY INFORMATION
15.1 No data available

16. OTHER INFORMATION

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Revision Date: 10/16/2017

Version 1.4

Preparation Information

Newcomer Supply Inc.

800-383-7799

www.newcomersupply.com

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