

Revision Date: 12/27/2024

Version 1.7

1. PRODUCT AND COMPANY IDENTIFICATION

Part Number: 1096

FrozFix® Fixative **Product Name:**

> 1096 Part Number:

CAS-No.: Not applicable

3000 **SDS Number:**

1.2 Recommended Use: **Laboratory Chemicals**

1.3 Company: **NEWCOMER SUPPLY**

> 1020 PRAIRIE VIEW CT WAUNAKEE WI 53597-8512

Telephone: 1-800-383-7799 Fax: 1-608-831-0866

Website: www.newcomersupply.com Email:

info@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)

Flammable liquid, Category 3

Acute toxicity (oral), Category 3

Acute toxicity (dermal), Category 3

Acute toxicity (inhalation), Category 1

Skin corrosion, Category 1B

Serious eye damage, Category 1

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):

- · Flammable liquid and vapour
- · Toxic if swallowed
- · Toxic in contact with skin
- · Fatal if inhaled
- · Causes severe skin burns and eye damage
- · 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.
- · Keep away from heat/sparks/open flames/hot surfaces No smoking.
- · Keep container tightly closed.



Revision Date: 12/27/2024

Part Number: 1096 Version 1.7

- · Ground/bond container and receiving equipment.
- · Use explosion-proof fume hood/electrical/ventilating/light equipment.
- · Use only non-sparking tools.
- · Take precautionary measures against static discharge.
- · Do not breathe dust/fume/gas/mist/vapours/spray.
- · In case of inadequate ventilation wear respiratory protection.
- · 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:

- · In case of fire use carbon dioxide, dry chemical or alcohol-resistant foam.
- · 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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- · Wash contaminated clothing 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 SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- · IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- · 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.
- · Keep container tightly closed.
- · Store locked up.

Disposal:

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

2.3 Description of any hazards not otherwise classified

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						5-10%	
Name	Ethyl Alcohol							
CAS-No.	64-17-5						30-35%	
Name	Methyl Alc	ohol						
CAS-No.	67-56-1						1-2%	
Name	Isopropyl Alcohol							
CAS-No.	67-63-0						1-2%	
Name	Acetone							
CAS-No.	67-64-1						15-20%	

None

4. FIRST-AID MEASURES

4.1 Description of necessary measures

Inhalation (breathing)



Revision Date: 12/27/2024

Version 1.7

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

Part Number: 1096

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing 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)

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: 2 hazard: 3 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. Keep product away from heat, flame, ignition sources, and reactive materials. Avoid accumulation of vapor to form explosive concentration. Pay particular attention to low areas where vapor accumulates more easily.

6.2 Methods and material for containment and cleaning up

Apply personal protective equipment (see Section 8). Ensure proper ventilation. Contain spill. Prevent further leakage if possible and safe to do so. Evacuate area and limit access. Prevent entry of material into sewage drains and confined areas. Dispose of any contaminated materials according to local regulations. Eliminate sources of ignition.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling



Revision Date: 12/27/2024

Version 1.7

Keep away from heat/sparks/open flames/hot surfaces – No smoking. 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

Part Number: 1096

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	С	0.3 ppm (0.37 mg/m ³)
		NIOSH REL	TWA	0.016 ppm
		NIOSH REL	С	0.1 ppm 15-minute
Component	CAS-No.	Regulatory	Value	Parameters
Ethyl Alcohol	64-17-5	OSHA PEL	TWA	1000 ppm (1900 mg/m³)
		ACGIH TLV	TWA	1000 ppm (1880 mg/m ³)
		NIOSH REL	TWA	1000 ppm (1900 mg/m ³)
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
Isopropyl Alcohol	67-63-0	OSHA PEL	TWA	400 ppm (980 mg/m³)
		ACGIH TLV	TWA	400 ppm (983 mg/m ³)
		ACGIH TLV	STEL	500 ppm (1,230 mg/m ³)
		NIOSH REL	TWA	400 ppm (980 mg/m ³)
		NIOSH REL	STEL	500 ppm (980 mg/m ³)
Component	CAS-No.	Regulatory	Value	Parameters
Acetone	67-64-1	OSHA PEL	TWA	1,000 ppm (2,400 mg/m ³)
		ACGIH TLV	TWA	750 ppm (1,780 mg/m ³)
		ACGIH TLV	STEL	1,000 ppm (2,380 mg/m ³)
		NIOSH REL	TWA	250 ppm (590 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



Revision Date: 12/27/2024

Version 1.7

Eye/Face protection

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

Skin Protection

Part Number: 1096

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).

In case of emergency, entry into unknown concentrations, or escape, wear a self-contained positive-pressure breathing apparatus.

Other Information

None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Clear colorless liquid Odor No data available Odor threshold No data available No data available Melting point/freezing point No data available Initial boiling point and boiling range No data available Flash point No data available **Evaporation rate** No data available Flammability (solid, gas) Flammable liquid Upper flammability or explosive limits No data available Lower flammability or explosive limits No data available No data available Vapor pressure Vapor density No data available Relative density No data available

Solubility(ies) Completely water soluble

Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity
No data available
No data available
No data available

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.



Revision Date: 12/27/2024

Part Number: 1096 Version 1.7

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. Ethyl alcohol: Strong oxidizers, potassium dioxide, bromine pentafluoride, acetyl bromide, acetyl chloride, platinum, sodium concentrated sulfuric acid, potassium and hydrogen peroxides, platinum black, calcium hypochlorite, silver oxide, ammonia, nitric acid, mercuric nitrate, silver nitrate, magnesium perchlorate, isocyanates, mineral acids, and chloroform.

10.6 Hazardous decomposition products

No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Inhalation exposure

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. Inhaling ethyl alcohol, methyl alcohol, and isopropyl alcohol, and acetone can irritate the nose, throat and lungs causing coughing and/or shortness of breath. Headache, lightheadedness, nasal irritation weres noted in workers exposed to concentrations considerably in excess of 1,000 ppm and perhaps as high as 6,500 ppm of acetone.

Oral exposure

Acute oral exposure to formaldehyde can result in serious systemic symptoms or death. Oral exposure to ethyl alcohol, methyl alcohol, and isopropyl alcohol can cause headache, drowsiness, nausea and vomiting, and unconsciousness and can affect concentration and vision.

Dermal exposure

No data available

Skin corrosion/irritation

Formaldehyde is corrosive and contact can severely irritate and burn the skin. Prolonged or repeated exposure to ethyl alcohol and acetone can cause drying and cracking of the skin with peeling, redness and itching.

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. Contact with ethyl alcohol can irritate the eyes. Acetone has been reported to cause burning sensation in the eyes at vapor concentration of 500 ppm. Reports of irritation in acclimated workers include a range of 1000-1500 ppm.

Respiratory or skin sensitization



Revision Date: 12/27/2024

Version 1.7

Formaldehyde: 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 asthmalike allergy. Formaldehyde may cause an asthmalike allergy. Future exposure can cause asthma attacks with shortness of breath, wheezing, coughing, and/or chest tightness.

Germ Cell mutagenicity

No data available

Part Number: 1096

Reproductive toxicity

There is limited evidence that formaldehyde may damage the developing fetus and affect female fertility. Repeated oral exposure to ethyl alcohol may cause spontaneous abortions, as well as birth defects and other developmental problems. This condition is referred to as "fetal alcohol syndrome." There is limited evidence that oral exposure to ethyl alcohol may decrease fertility in males.

Specific target organ toxicity - single exposure

Exposure to ethyl alcohol may affect the liver and the nervous system.

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Acute toxicity

Formaldehyde:

LD50 rat oral 100 mg/kg

LD50 rat dermal 270 mg/kg

LC50 rat inhalation 0.48 mg/l/4 hours

Ethyl Alcohol:

LD50 rat oral 3450 mg/kg

LD50 mouse oral 7060 mg/kg

LC50 rat inhalation 20000 ppm/10H

LC50 mouse inhalation 20363 ppm/4H

Acetone:

LD50 rat oral 5800 mg/kg

LD50 rabbit oral 5340 mg/kg

LD50 mouse oral 3000 mg/kg

LCLo mouse inhalation 45,455 ppm/1H

Carcinogencity

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



Revision Date: 12/27/2024

Version 1.7

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

Part Number: 1096

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

DOT (US)

UN-Number UN1170

Proper shipping name Ethanol Solution



Hazard class 3
Packing group II

Environmental hazards No data available

15. REGULATORY INFORMATION

15.1 Canadian Regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all information required by the HPR.

Canada DSL Inventory: Registration Status

Formaldehyde (50-00-0): LISTED Ethyl Alcohol (64-17-5): LISTED Methyl Alcohol (67-56-1): LISTED Isopropyl Alcohol (67-63-0): LISTED 2-Propanone (67-64-1): LISTED

Canada Environmental Emergency Regulations Schedule 1: Listed Substance

Formaldehyde (50-00-0): LISTED

Canada NPRI (Supplier Notification Required): Listed Substance

Formaldehyde (50-00-0): LISTED Ethyl Alcohol (64-17-5): LISTED Methyl Alcohol (67-56-1): LISTED

Export Control List (CEPA, 1999, Schedule 3)

Not listed



Revision Date: 12/27/2024

Version 1.7

Non-Regulatory Instruments

Not listed

Schedule 8 of the New Substances Notification Regulations (Chemicals and Polymers)

Not listed

16. OTHER INFORMATION

Part Number: 1096

Preparation Information Newcomer Supply Inc. 800-383-7799

www.newcomersupply.com

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