

Revision Date: 1/23/2025

Version 1.6

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Part Number: 10493

1.1 Product Name: Decalcifying Solution, Formic Acid/Formalin

Part Number: 10493

**CAS-No.:** Not applicable

SDS Number: 2700

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.comEmail: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)

Acute toxicity (oral), Category 4

Acute toxicity (inhalation), Category 4

Skin corrosion, Category 1

Serious eye damage, Category 1

Skin sensitisation, Category 1

Carcinogenicity, Category 1A

Specific Target Organ Toxicity - Single exposure, Category 1

#### 2.2 GHS Label elements

Signal Word DANGER

**Pictogram** 





#### Hazard Statement(s):

- · Harmful if swallowed
- · Harmful if inhaled
- · Causes severe skin burns and eye damage
- · May cause an allergic skin reaction
- · May cause cancer
- · Causes damage to organs

## **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.
- · 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 ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.



Revision Date: 1/23/2025

Version 1.6

- · 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: Call a POISON CENTER or doctor/physician if you feel unwell.
- · Rinse mouth.
- · Specific treatment: see first aid measures in section 4.
- · Immediately call a POISON CENTER or doctor/physician.

#### Storage:

Part Number: 10493

· 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	3-4%
Name	Methyl Alcohol	
CAS-No.	67-56-1	<1%
Name	Formic Acid	_
CAS-No.	67-56-1	4-5%

### 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. If skin irritation or a rash occurs: Get medical advice/attention.

# **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: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

## 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.



Revision Date: 1/23/2025

Version 1.6

# 5.2 Specific hazards arising from the substance or mixture

No data available

Part Number: 10493

## 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: 1 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

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

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 <sup>3</sup> )
		NIOSH REL	TWA	0.016 ppm
		NIOSH REL	С	0.1 ppm 15-minute
		•		
Component	CAS-No.	Regulatory	Value	Parameters
			<u> </u>	2

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



Revision Date: 1/23/2025

Version 1.6

Component	CAS-No.	Regulatory	Value	Parameters
Formic Acid	64-18-6	OSHA PEL	TWA	5 ppm (9 mg/m <sup>3</sup> )
		NIOSH REL	TWA	5 ppm (9 mg/m <sup>3</sup> )
		ACGIH TLV	TWA	5 ppm (9.4 mg/m <sup>3</sup> )
		ACGIH TLV	STEL	10 ppm (19 mg/m <sup>3</sup> )

#### 8.2 Exposure Controls

Part Number: 10493

#### **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).

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 Translucent, colorless liquid
Odor Faint vinegar-like odor
Odor threshold No data available
pH No data available

Melting point/freezing point

Initial boiling point and boiling range

Flash point

Evaporation rate

ca. 0°C (ca. 32°F)

ca. 100°C (ca. 32°F)

No data available

Evap. rate of water = 1; 1

Flammability (solid, gas)

Upper flammability or explosive limits

Lower flammability or explosive limits

Vapor pressure

Vapor density

Relative density

No data available

No data available

No data available

For water in air = 1; 1

Similar to water

Solubility(ies) Infinitely soluble with water

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

No data available

No data available



Revision Date: 1/23/2025

Version 1.6

Viscosity 1.222 (mPa)(s) at 20°C

#### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Part Number: 10493

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. Formic acid reacts violently with oxidizing agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine and fluorine); strong inorganic bases (such as sodium hydroxide and potassium hydroxide); and strong organic bases (such as amines) causing a fire and explosion hazard. Formic acid reacts with chemically active metals (such as potassium, sodium, magnesium and zinc) to form flammable and explosive hydrogen gas and metal salts. Formic acid is decomposed by strong acids (such as hydrochloric, sulfuric and nitric) for form poisonous carbon monoxide gas and reacts with cyanide salts to form toxic hydrogen cyanide gas. Formic acid attacks many plastics and metals.

## 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 and formic acid can irritate the lungs and higher exposures may cause a build-up of fluid in the lungs (pulmonary edema), a medical emergency.

#### **Oral** exposure

Formaldehyde is corrosive and contact can severely irritate and burn the skin.

## **Dermal exposure**

No data available

#### Skin corrosion/irritation

Formaldehyde and formic acid are corrosive and contact can severely irritate and burn the skin.

## Serious eye damage/irritation



Part Number: 10493

# **SAFETY DATA SHEET (SDS)**

Revision Date: 1/23/2025

Version 1.6

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. Formic acid is corrosive and contact 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.

## **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**

Formaldehyde:

LD50 rat oral 100 mg/kg

LD50 rat dermal 270 mg/kg

LC50 rat inhalation 0.48 mg/l/4 hours

#### 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

#### 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



Revision Date: 1/23/2025

Version 1.6

#### **Contents**

Part Number: 10493

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

Preparation Information Newcomer Supply Inc. 800-383-7799

www.newcomersupply.com

Copyright © Newcomer Supply Inc. All rights reserved.