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**1. PRODUCT AND COMPANY IDENTIFICATION**

- 1.1 Product Name:** **Zamboni Fixative**  
**Part Number:** 1459  
**CAS-No.:** Not applicable  
**SDS Number:** 4680
- 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](http://www.newcomersupply.com)  
**Email:** [newly@newcomersupply.com](mailto: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)

Flammable liquid, Category 4

Acute toxicity (oral), Category 3

Acute toxicity (dermal), Category 3

Acute toxicity (inhalation), 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):**

- Combustible liquid
- Toxic if swallowed
- Toxic in contact with skin
- Fatal if inhaled
- 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
- Do not breathe dust/fume/gas/mist/vapours/spray
- Avoid breathing dust/fume/gas/mist/vapours/spray
- In case of inadequate ventilation wear respiratory protection
- Wash skin thoroughly after handling

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- 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:**

- Rinse mouth
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Specific treatment: see first aid measures in section 4
- In case of fire use carbon dioxide, dry chemical or alcohol-resistant foam.
- IF ON SKIN: Gently wash with plenty of soap and water
- Call a POISON CENTER or doctor/physician if you feel unwell
- Take off contaminated clothing and wash before reuse
- If skin irritation or a rash occurs: Get medical advice/attention
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF INHALED: If breathing is difficult, 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
- Immediately call a POISON CENTER or doctor/physician
- Specific treatment is urgent: see first aid measures in section 4
- Wash contaminated clothing before reuse
- IF exposed or concerned: Get medical advice/attention
- IF exposed: Call a POISON CENTER or doctor/physician
- Get medical advice/attention if you feel unwell

**Storage:**

- Store in a well ventilated place. Keep cool.
- Store in a well ventilated place. 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**                      None
- 2.4 >1% of mixture with unknown acute toxicity**                                      None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2 Mixture**

**Hazardous Components**

Component		Concentration
Name	Paraformaldehyde	
CAS-No.	30525-89-4	2%
Name	Picric Acid	
CAS-No.	88-89-1	<1%
Name	Sodium Hydroxide	
CAS-No.	1310-73-2	<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. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor/physician.

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### 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: 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

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**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 <sup>3</sup> )
		NIOSH REL	TWA	0.016 ppm
		NIOSH REL	C	0.1 ppm 15-minute

Component	CAS-No.	Regulatory	Value	Parameters
Paraformaldehyde	30525-89-4	OSHA PEL	TWA	0.75 ppm
		OSHA PEL	STEL	2 ppm
		NIOSH REL	STEL	0.016 ppm
		NIOSH REL	TWA	2 ppm
		ACGIH TLV	C	0.3 ppm

Component	CAS-No.	Regulatory	Value	Parameters
Picric Acid	88-89-1	OSHA PEL	TWA	0.1 mg/m <sup>3</sup> (skin)
		ACGIH TLV	TWA	0.1 mg/m <sup>3</sup> (skin)
		NIOSH REL	TWA	0.1 mg/m <sup>3</sup> (skin)
		NIOSH REL	STEL	0.3 mg/m <sup>3</sup> (skin)

Component	CAS-No.	Regulatory	Value	Parameters
Sodium Hydroxide	1310-73-2	OSHA PEL	TWA	2 mg/m <sup>3</sup>
		ACGIH TLV	C	2 mg/m <sup>3</sup>
		NIOSH REL	C	2 mg/m <sup>3</sup>

**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).

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

**Other Information**

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None

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

Physical state	Yellow liquid
Odor	Pungent odor
Odor threshold	No data available
pH	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)	No data available
Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility(ies)	Water soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	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.

**10.5 Incompatible materials**

Strong oxidizing materials, strong acids, strong bases, strong reducing agents, heavy metals, heavy metal salts, and ammonia.

**10.6 Hazardous decomposition products**

Paraformaldehyde decomposes slowly in water to form toxic and flammable formaldehyde gas.

**11. TOXICOLOGICAL INFORMATION**
**11.1 Information on toxicological effects**
**Inhalation exposure**

No data available

**Oral exposure**

No data available

**Dermal exposure**

No data available

**Skin corrosion/irritation**

No data available

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**Serious eye damage/irritation**

No data available

**Respiratory or skin sensitization**

Paraformaldehyde may cause a skin allergy and 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**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

Repeated high exposure to paraformaldehyde may affect the kidneys.

**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

Picric Acid:

LD50 rat 200 mg/kg

Sodium hydroxide:

LD50 rat oral 140-340 mg/kg

LD50 rabbit dermal 1350 mg/kg

**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**

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**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** 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](http://www.newcomersupply.com)

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