

Part Number: 1461

# SAFETY DATA SHEET (SDS)

Revision Date: 10/16/2017

Version 1.4

#### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product Name: Part Number: CAS-No.: SDS Number:	<b>Zenker Fixative, Modified, Zinc Chloride</b> 1461 Not applicable 4690		
1.2	Recommended Use:	Laboratory Chemicals		
1.3	Company:	Newcomer Supply 2505 Parview Road Middleton, WI 53562 USA	24 HOUR EMERGENCY CONTACT CALL CHEMTREC: 1-800-424-9300	
	Telephone:	1-800-383-7799	Contact CHEMTREC only in the event of	
	Fax:	1-608-831-0866	an emergency involving a chemical spill,	
	Website:	www.newcomersupply.com	leak, fire, exposure or other accident.	
	Email:	newly@newcomersupply.com		

#### 2. HAZARD(S) IDENTIFICATION

#### 2.1 Classification of the substance or mixture

GHS Classification, (in accordance with 29 CFR1910.1200) Acute toxicity (oral), Category 2 Acute toxicity (inhalation), Category 2 Acute toxicity (dermal), Category 1 Skin corrosion, Category 1 Serious eye damage, Category 1 Respiratory sensitization, Category 1 Germ cell mutagenicity, Category 1B Carcinogenicity, Category 1B Reproductive toxicity, Category 1B Specific Target Organ Toxicity – Repeated exposure, Category 1

2.2 GHS Label elements

**Signal Word** 



#### Pictogram



#### Hazard Statement(s):

- · Fatal if swallowed
- · Fatal if inhaled
- · Fatal in contact with skin
- · Causes severe skin burns and eye damage
- · May cause allergy or asthma symptoms or breathing difficulties if inhaled
- · May cause genetic defects
- · May cause cancer
- May damage fertility or the unborn child
- · May cause damage to organs through prolonged or repeated exposure **Precautionary Statement(s):**

#### **Prevention:**

- · Obtain special instructions before use.
- · Do not handle until all safety precautions have been read and understood.
- · Wash skin thoroughly after handling.
- $\cdot$  Do not eat, drink or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection/face protection.
- · Do not breathe dust/fume/gas/mist/vapours/spray.
- · Do not get in eyes, on skin, or on clothing.
- · Use only outdoors or in a well-ventilated area.

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- In case of inadequate ventilation wear respiratory 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.
- $\cdot$  Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy

- to do continue rinsing.
- $\cdot$  IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- · IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- $\cdot$  Specific treatment is urgent: see first aid measures in section 4.
- $\cdot$  Immediately call a POISON CENTER or doctor/physician.

#### Storage:

- · 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	Potassium Dichromate	
CAS-No.	7778-50-9	
Name	Zinc Chloride	
CAS-No.	7646-85-7	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 (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

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### 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	0	Fire		Reactivity	
hazard:	2	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. Do not get in eyes, on skin, or on clothing.

#### **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

Component	CAS-No.	Regulatory	Value	Parameters
Potassium Dichromate	7778-50-9	OSHA PEL	TWA	0.005 mg/m <sup>3</sup>
		NIOSH REL	TWA	0.001 mg/m <sup>3</sup>
		ACGIH TLV	TWA	0.05 mg/m <sup>3</sup>
Component	CAS-No.	Regulatory	Value	Parameters
Zinc Chloride	7646-85-7	OSHA PEL	TWA	1 mg/m <sup>3</sup>
		NIOSH REL	TWA	1 mg/m <sup>3</sup>
		NIOSH REL	STEL	2 mg/m <sup>3</sup>
		ACGIH TLV	TWA	1 mg/m <sup>3</sup>
		ACGIH TLV	STEL	2 mg/m <sup>3</sup>

8.2 Exposure Controls

#### Appropriate engineering controls



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Use in a properly ventilated area. Remove/wash before reuse contaminated clothing. Wash hands upon exiting work premises.

#### 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 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 or escape from unknown concentrations, select the highest level approved respiratory protection available.

## Other Information

None

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Physical state Odor Odor threshold pH Melting point/freezing point Initial boiling point and boiling range Flash point Evaporation rate Flammability (solid, gas) Upper flammability or explosive limits Lower flammability or explosive limits Vapor pressure Vapor density Relative density	Orange liquid Odorless No data available No data available ca. 0°C (ca. 32°F) ca. 100°C (ca. 32°F) No data available No data available
Vapor density	No data available
Solubility(ies)	Water soluble
Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity	No data available No data available No data available No data available
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#### **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

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# **10.4** Conditions to avoid No data available

#### **10.5** Incompatible materials

Potassium dichromate reacts violently with hydrazine; anhydrous hydroxylamine; ethylene glycol; and mixtures of sulfuric acid and acetone. Combinations of potassium dichromate with boron and silicon, iron or tungsten form explosive pyrotechnic mixtures. Potassium dichromate is not compatible with oxidizing agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine and fluorine); strong acids (such as hydrochloric, sulfuric and nitric); and metals. Zinc chloride may react violently or explosively with potassium. Zinc chloride is not compatible with cyanides; sulfides; oxidizing agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorite, sulfides; oxidizing agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorates, nitrates, chlorine, bromine and fluorine); and strong bases (such as sodium hydroxide and potassium hydroxide). Zinc chloride is corrosive to metals.

**10.6 Hazardous decomposition products** No data available

#### **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

Contact with potassium dichromate and zinc chloride can irritate and burn the skin.

#### Serious eye damage/irritation

Contact with potassium dichromate and zinc chloride can irritate and burn the eyes with possible eye damage.

#### **Respiratory or skin sensitization**

Potassium dichromate 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

Potassium dichromate can cause change in the genetic material in a body cell leading to birth defects, miscarriages, or cancer.

#### **Reproductive toxicity**

There is limited evidence that potassium dichromate may damage the developing fetus in animals.

Specific target organ toxicity - single exposure No data available

**Specific target organ toxicity - repeated exposure** Potassium dichromate may damage the liver and kidneys.

Aspiration hazard No data available

Acute toxicity



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Potassium Dichromate: LD50 rat oral 25 mg/kg LD50 rat dermal 14 mg/kg LD50 rat inhalation 0.088 mg/l/4 hours Zinc Chloride: LD50 rat oral 350 mg/kg

#### Carcinogencity

IARC: Potassium Dichromate: Group 1 - Carcinogenic to humans NTP: Potassium Dichromate: Known to be a human carcinogen OSHA: Potassium Dichromate: 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**

Preparation Information Newcomer Supply Inc.



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