# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Zinc Formalin

SYNONYMS: Zinc unbuffered formalin

**CATALOG CODES:** MANUFACTURER: Volu-Sol

ADDRESS: 5095 West 2100 South

Salt Lake City, UT 84120

**EMERGENCY PHONE:** (800) 535-5053 OTHER CALLS: (801) 974-9474 (801) 974-9553 FAX:

**CHEMICAL FAMILY:** CHEMICAL FORMULA: PREPARED BY: Volu-Sol

**RECOMMENDED USE:** Laboratory chemicals

RESTRICTIONS ON USE: Use as recommended

## SECTION 2: HAZARD(S) IDENTIFICATION

#### **EMERGENCY OVERVIEW:**

Pictogram:

**GHS Classification:** Skin corrosion (Category 2) Serious eve damage (Category 1) Skin sensitization (Category 1) Carcinogenicity (Category 1A) Specific target organ toxicity (Category 1)

Single Exposure - Respiratory system, CNS

#### **GHS LABEL ELEMENTS:**



Signal Word: Hazard Statement(s):

> H315 Causes skin irritation

H317 May cause an allergic skin reaction H318 Causes serious eye damage

H350 May cause cancer H370 Causes damage to organs

Precautionary Statement(s):

P201 Obtain special instructions before use

Do not handle until all safety precautions have P202

been read and understood

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/

spray

P264 Wash skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product Contaminated work clothing should not be allowed P272

out of the workplace

P280 Wear protective gloves/ eye protection/ face

Use personal protective equipment as required P281 P302+P352 IF ON SKIN: Wash with plenty of soap and water

P307+P311 IF exposed: Call a POISON CENTER or doctor/

physician

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and

easy to do. Continue rinsing

P308+P313 IF exposed or concerned: Get medical

advice/attention

P310 Immediately call a POISON CENTER or

doctor/physician

P321 Specific treatment (see supplemental first aid

instructions on this label)

P333+P313 If skin irritation or rash occurs: Get medical advice/

P362 Take off contaminated clothing and wash reuse

P363 Wash contaminated clothing before reuse

P405 Store locked up

P501 Dispose of contents/container to an approved

waste disposal plant

## OTHER HAZARDS: -**HMIS Classification:**

Health hazard: 3 Chronic health hazard: Flammability: Physical hazards: 0 NFPA Rating: Health hazard: 3

**Reactivity Hazard:** 

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

0

	CAS NO. EC-NO.		
INGREDIENT			
	Index-NO.		
	7733-02-0		
Zinc sulfate (<1 %)	231-793-3		
	030-006-00-9		
Same	50-00-0		
Formaldehyde (3 - 5 %)	200-001-8		
1.00	605-001-00-5		
1 4 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	67-56-1		
Methyl alcohol (1-2 %)	200-659-6		
	603-001-00-X		

## SECTION 4: FIRST AID MEASURES

INHALATION: Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products

INGESTION: Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician

SKIN: Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician

EYE: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician

# **SECTION 5: FIRE-FIGHTING MEASURES**

FLAMMABLE LIMITS IN AIR: Percentage by Volume

> Upper: % Lower: %

FLASH POINT: 93.3 °C / 199.9 °F

# **AUTOIGNITION TEMPERATURE:**

EXTINGUISHING MEDIA: Use water spray, alcohol-resistant foam, dry chemical or carbon

FIRE FIGHTING PROCEDURES: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode

FIRE AND EXPLOSION HAZARDS: No data available

## SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal

# SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Pay attention to flashback. Take precautionary measures against static discharges. Contents under pressure. Do not take internally. Avoid contact with clothing. Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers

INCOMPATIBILITES: Strong oxidizing agents

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**EXPOSURE LIMITS:** Reported in a time-weighted average (TWA)

Cas No		OSHA		ACGIH	
Component	CAS-No.	ppm	mg/m³	ppm	mg/m³
Formaldehyde	50-00-0	0.75		0.16	
		PEL		TLV	
Methanol	67-56-1	200	260	200	
		PEL	PEL	TLV	

**VENTILATION SYSTEM:** Local and/or general exhaust is recommended to keep exposure below limits. Local exhaust ventilation is preferred for control of the emissions at its source, preventing dispersion into the general work area. Please refer to the ACGIH document, *Industrial Ventilation: A Manual of Recommended Practices*, for details

**PERSONAL RESPIRATORS:** If exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapour respirator may be worn for up to ten times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier; whichever is lowest. A full-face piece organic vapour respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face, positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres

**SKIN PROTECTION:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

**EYE PROTECTION:** Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation. Material should be handled in a laboratory hood whenever possible

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

 APPEARANCE:
 liqu

 ODOR:

 SOLUBILITY:

 pH:

 BOILING POINT:

 MELTING POINT:

 VAPOR PRESSURE:

 DENSITY:

 VISCOSITY:

 REFRACTIVE INDEX:

# SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended conditions of use and

storage

CONDITIONS TO AVOID: Excess heat. Heating in air

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon monoxide (CO), Carbon

dioxide (CO<sub>2</sub>), formaldehyde

# SECTION 11: TOXICOLOGICAL INFORMATION

## TOXICOLOGICAL INFORMATION:

Acute Toxicity: No data available
Skin/Eye Irritation: No data available

Carcinogenicity:

IARC: 1 - Group 1: Carcinogenic to humans (Formaldehyde)

NTP: Known - Known to be human carcinogen (Formaldehyde)

OSHA: OSHA specifically regulated carcinogen (Formaldehyde)

# SECTION 12: ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Toxicity: No data available

Persistence and degradability: No data available

Mobility in soil: No data available PBT/vPvB Results: No data available

#### SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of as unused product

#### SECTION 14: TRANSPORT INFORMATION

US DOT	IATA	IMDG/IMO
	Not dangerous goods	

# **SECTION 15: REGULATORY INFORMATION**

SARA 302	50-00-0	
SARA 313	50-00-0, 67-56-1, 7733-02-0	
SARA 311/312 Hazards	Acute Health Hazard, Chronic Health Hazard	
Right to know lists: MA: 50-00-0, 67-56-1, 7733-02-0  PA: 7732-18-5, 50-00-0, 67-56-1, 7733-02-0  NJ: 7732-18-5, 50-00-0, 67-56-1, 7733-02-0  California Prop. 65 Components: 50-00-0, 67-56-1		

## **SECTION 16: OTHER INFORMATION**

**Disclaimer:** The information is provided without any representation or warranty, express or implied, regarding the accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.