

Safety Data Sheet

FORMALIN, 1% AQUEOUS

Section 1 - Chemical Product and Company Identification

SDS Name: Formalin, 1% Aqueous
Catalog Numbers: SO-332, F-394-5, F-395-7
Company Identification: ROWLEY BIOCHEMICAL
10 ELECTRONICS AVENUE
DANVERS, MA 01923
For information, call: 978-739-4883
Emergency Number: 800-424-9300
For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

H302-Acute toxicity, oral: 4
H312-Acute toxicity, dermal: 4
H315-Skin Corrosion/Irritation: 2
H318-Serious Eye damage/ Eye irritation: 1
H350-Carcinogenicity: 1A

Pictograms or Hazard symbols and Hazard statement(s):



Signal word: Danger

Hazard Statements:

H302-Harmful if swallowed
H312-Harmful in contact with skin
H315-Causes skin irritation
H318-Causes serious eye damage
H350-May cause cancer

Precautionary Statements:

P201-Obtain special instructions before use.
P202-Do not handle until all safety precautions have been read and understood.
P264-Wash thoroughly after handling.
P270-Do not eat, drink or smoke when using this product.
P280-Wear protective gloves/protective clothing/eye protection/face protection.
P281-Use personal protective equipment as required.
P301+P312-If swallowed: Call a Poison Center or doctor/physician if you feel unwell.
P302+P352-If on skin: Wash with plenty of soap and water.
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.
P312-Call a Poison Center or doctor/physician if you feel unwell.
P330-Rinse mouth.
P332+P313-If skin irritation occurs: Get medical advice/attention.
P362-Take off contaminated clothing and wash before reuse.
P363-Wash contaminated clothing before reuse.
P405-Store locked up.
P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
50-00-0	Formaldehyde, 37-40%	1 v/v
67-56-1	Methanol	<1 v/v
7732-18-5	Water	balance

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

Oral Exposure: If Swallowing seek immediate medical advice.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

Firefighters should wear proper protective clothing and self-contained breathing apparatus with full piece operated in positive pressure mode to prevent contact with skin and eyes.

Extinguishing Media: Use water spray, dry chemical powder, or appropriate foam.

Flash Point: N/A

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear protective gear.

Methods for Cleaning up: Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

Section 7 - Handling and Storage

Use care when handling. Wash thoroughly after handling. Store capped at room temperature. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment:

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear

Odor: formaldehyde, pungent

Vapor Pressure: N/A

Odor threshold: N/A

Vapor Density: N/A

pH: 4.0-5.0

Relative density: N/A

Melting point/freezing point: N/A

Solubility: soluble in water

Boiling Point: N/A
Flash point: N/A
Evaporation Rate: N/A
Flammability (solid, gas): N/A
Partition coefficient: n-octanol/water: N/A
Auto-ignition temperature: N/A
Decomposition temperature: N/A
Viscosity: N/A

Section 10 - Stability and Reactivity

Chemical Stability: Stable under ordinary conditions of use and storage.
Incompatible Materials: Strong Oxidizing agents, Alkalies, Acids.
Hazardous Decomposition Products: Carbon oxides, formaldehyde.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: not available

LD50/LC50:

Formaldehyde CAS# 50-00-0:
LD50 oral 500 mg/kg (rat)
LD50 dermal 270mg/kg (rabbit)
LC50 inhalation 0.578 mg/L (rat) 4h

Methyl alcohol CAS#67-56-1:
LD50 oral >1187-2769 mg/kg (rat)
LD50 dermal 17100 mg/kg (rabbit)
LC50 inhalation 128.2 mg/L (rat) 4h

Solution Carcinogenicity:

Formaldehyde is listed by ACGIH (A1 Known Human Carcinogen), IARC (Group 1 Carcinogenic to Humans), NTP, and CA Prop 65.

Section 12 - Ecological Information

Ecotoxicity:

Formaldehyde CAS# 50-00-0: This material is expected to be toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

Formaldehyde CAS# 50-00-0: LC50 15 mg/L (freshwater fish, leuciscus idus) 96h

EC50 20mg/L (water flea) 96h, 2mg/L (water flea) 48h

Methyl alcohol CAS#67-56-1: LC50 >10000 mg/L (freshwater fish, pimephales promelas)
96h

EC50 >10000 mg/L 24h (water flea)

Mobility in soil: This product is water soluble and will be mobile in the environment.

Other: Toxic to aquatic organisms.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 - Transport Information

DOT

Non-regulated

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

California Prop 65

Formaldehyde, is a chemical known to the state of California to cause cancer.

Section 16 - Additional Information

SDS Creation Date: 11/1/12

Revision #1 RC 12/18/14

Rev. # 1 Change from MSDS to SDS

Rev. # 2 Change statement on section 13

Ruth Chabot. 11/28/16

Rev. #3 10-31-18

Rev. #4 1-2-19

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