

Safety Data Sheet

Formalin, 10% Non-Buffered Issue Date: 12/30/2015 V1.0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Formalin, Non-Buffered 10% **Product code:** 3180-5, 5 Gallon Cube

Supplier: StatLab Medical Products

2090 Commerce Drive McKinney, TX 75069 800-442-3573

972-436-1369 Fax statlab.com

Synonym: None

Material uses: Laboratory Reagent.

In case of emergency: 800-424-9300 CHEMTREC (USA)

703-527-3887 (International) 24 Hours/Day: 7 Days/Week

2. HAZARDS IDENTIFICATION

Emergency Overview

Target Organs: Eyes, Kidney, Liver, Heart, Central Nervous System

GHS Label Elements: Pictogram



Signal Word Warning!

Hazardous Statements

H302; Harmful if swallowed (Cat4) **H315**: Causes skin irritation (Cat 2)

H317; May cause an allergic skin reaction (Cat1)

Potential Health Effects

Inhalation - May be harmful if inhaled. Causes respiratory tract irritation. May cause cancer Skin - May be harmful if absorbed through skin. Causes skin irritation.

Eves - Causes eve irritation.

Ingestion - May be harmful if swallowed.

Precautionary Statements

P260; Do not breathe fumes or mist

P262; Avoid contact with eyes, skin or clothing

P280; Wear protective equipment

P302; If on skin, wash with plenty of water Wear protective gloves/ eye protection/ face protection.

P304; If inhaled, move to fresh air.

P305; If in eyes, rinse cautiously with water for several minutes, (remove contact lenses, if present) and continue rinsing



NFPA Rating HMIS Classification

Health hazard: 2 Health hazard: 2 Fire: 0 Flammability: 0

Reactivity Hazard: 0 Physical hazards: 0

Target Organs

Central Nervous System (CNS), Skin, Liver, Kidney, Spleen, Blood

3. COMPOSITION/INFORMATION ON INGREDIENTS

 Name
 CAS number
 %

 Formaldehyde
 50-00-0
 ~10 v/v

 Methyl Alcohol
 67-56-1
 ~ 1 w/w

 Water
 7732-18-5
 Balance

4. FIRST AID MEASURES

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15

minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated

clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical

attention immediately.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest

occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a

collar, tie, belt or waistband. Get medical attention immediately.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel.

Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Water spray, dry chemical, CO2 and foam

Not suitable: None known.

Special exposure hazards: Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without training.

Hazardous thermal

decomposition products: No specific data.

Special protective

equipment for fire-fighters: Wear protective clothing with NIOSH approve breathing apparatus. Product of

combustion may be harmful in a fire situation. Do not use direct water stream.

Special remarks on

explosion hazards: May emit toxic fumes under fire conditions

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment (see Section 8).

appropriate personal protective equipment (see Section 6).

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and

sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Spill: Stop leak if without risk. Move containers from spill area. Approach release from

upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local



regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container

7. HANDLING AND STORAGE

Handling: Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist.

Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain

product residue and can be hazardous. Do not reuse container.

Storage: Store in accordance with local regulations. Store in a segregated and approved area.

Store in original container, protected from direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully

resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult local authorities for acceptable exposure limits.

Engineering measures: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor

or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory

limits.

Formaldehyde CAS 50-00-0 OSHA PEL 0.75ppm, 2ppm STEL; ACGIH 0.3ppm Methanol CAS 67-56-1, OSHA PEL 200ppm; ACGIH, STEL 250ppm, TWA 200ppm

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before

eating, smoking and using the lavatory and at the end of the working period. Appropriate

techniques should be used to remove potentially contaminated clothing. Wash

contaminated clothing before reusing. Ensure that eyewash stations and safety showers

are close to the workstation location.

Personal protection

Respiratory: Use a properly fitted, air-purifying or air-fed respirator complying with an approved

standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be

worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

Eyes: Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists or

dusts. Recommended: splash goggles

Skin: Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before handling

this product. Recommended: lab coat

Environmental exposure

controls:

Emissions from ventilation or work process equipment should be checked to ensure they

comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be

necessary to reduce emissions to acceptable levels.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid Color: Colorless

Odor: Characteristic formaldehyde

pH: NA
Boiling/condensation point: ~213° F
Melting/freezing point: Not available.

Relative density: ≥ 1

Vapor pressure:Not available.Vapor density:Not available.Odor threshold:Not available.

Evaporation rate: 0.36 (Water) compared with(n-Butyl Acetate =1)

Solubility: Soluble in the following materials: water

10. STABILITY AND REACTIVITY

Chemical stability: The product is stable.

Possibility of hazardous

reactions: Under normal conditions of storage and use, hazardous reactions will not occur. **Hazardous polymerization:** Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid: Excessive heat.

Hazardous decomposition

products: Under normal conditions of storage and use, hazardous decomposition products should

not be produced. Under fire condition; carbon oxides

11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure: Skin, Eyes and Respiratory Tract

Ingestion: May cause pain, nausea, vomiting and diarrhea. Lower doses may decreased body temperature, pain in digestive tract, shallow respiration, weak pulse unconsciousness and death.

Skin: May cause skin irritation, scaling, cracking with redness, pain and including allergic skin reaction

Inhalation: Vapor could be toxic, cause severe irritation and sensitization. Symptoms include a burning sensation, coughing, shortness of breath, nausea, headache or dizziness. Severe over-exposure may produce lung damage, or choking ordeath.

Eye Contact: Vapors may cause eye irritation, pain and blurred vision.

Carcinogenicity: IARC, Listed; NTP, Known or suspect carcinogen; ACGIH, Confirmed or suspect carcinogen to Humans; Select or possible select carcinogen.

Mutagenicity: No known significant effects or critical hazards. Lab animal studies suggest formaldehyde may be Mutagenic.

Teratogenicity: No known significant effects or critical hazards except possibly in laboratory animals.

Reproductive: No known significant effects or critical hazards except possibly in laboratory animals.

Acute toxicity; Oral LD50 NA, Inhalation LC50 NA, Dermal LD50 NA,



12. ECOLOGICAL INFORMATION

Environmental effects: Formaldehyde has a half-life of less than one day. Readily biodegrable

Other adverse effects: No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Not regulated.

15. REGULATORY INFORMATION

Formaldehyde is listed on TSCA (formaldehyde is NL on TSCA), FORMA, DSL, PICCS, ENCS, AICS, China and KECL inventory. Methanol is below the threshold of 1% for SARA 313 values.

SARA 311/312 Hazardous Categorization: Acute Health Hazard, No; Chronic HH, Yes; Fire Hazard, No; Sudden Release of Pressure and Reactive Hazard, No

CWA: Formaldehyde is listed as hazardous substance.

CWA: Formaldehyde is listed as a HAP

OSHA Hazards

Irritant

CERCLA/SARA 302: Listed SARA Title III, Section 302.

SARA 313: This material does contain formaldehyde and is subject to the reporting requirements of SARA 313 Emissions Reporting.

SARA 311/312 Hazards

Acute Health Hazard, Formaldehyde, CAS 50-00-0

RTK: Formaldehyde CAS 50-00-0, MA, MN, NJ, PA, RI

California Proposition 65, Listed; This product contains a chemical known in the stae of CA to cause cancer or birth defects.

US Department of Homeland Security

Formaldehyde, Standard 12500 lbs (Solution)

Other International Regulations

Mexico - Grade 1, Slight Risk

Canada WHMIS Hazardous Class; D2A Very Toxic Material

D2B Toxic Material



16. OTHER INFORMATION

National Fire Protection Association (U.S.A.)



Notice to reader

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. StatLab Medical Products shall not be liable for any damage resulting from handling of contact with this product.