

# SAFETY DATA SHEET

Product Name: Formalin 10%  
Issue Date: April 1<sup>st</sup>, 2016  
Replaces: New Issue  
SDS Number: HAC0057

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## 1. PRODUCT IDENTIFICATION

Product Name: **Formalin 10%**  
Product Number(s):  
Use: Regent  
Manufacturer: HACCO, Inc.  
110 Hopkins Drive  
Randolph, WI 53956  
Manufacturer Phone: 1-920-326-5141  
Distributor: HACCO, Inc.  
110 Hopkins Drive  
Randolph, WI 53956  
Distributor Phone: 1-800-477-8201  
Emergency Phone: **Medical: 1-800-498-5743 (United States and Canada)**  
**Spill: 1-800-424-9300 (United States)**

## 2. HAZARDS IDENTIFICATION

Classifications: Specific Target Organ Toxicity: Category 1B (Skin)  
Carcinogenicity: Not Applicable  
Specific Target Organ Toxicity: Category 1 (Eye)  
Dermal: Category 4 (Acute Toxicity)  
Oral: Category 4 (Acute Toxicity)  
Flammable Liquids: Category 3

Signal Word (EPA): DANGER

Signal Word (OSHA): WARNING

Hazard Statements: Flammable liquid and vapor.  
Harmful if swallowed or in contact with skin.  
Causes severe skin burns and eye damage.  
Causes serious eye damage.



Hazard Symbols:

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Precautionary Statements: Keep away from heat/sparks/open flames/hot surfaces.  
NO SMOKING  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wash hands and face thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves, protective clothing, eye protection.  
If on skin: Wash with plenty of soap and water.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If exposed or concerned: Get medical advice/attention.  
Call a poison control center, doctor or 1-800-498-5743 (ProPharma) if you feel unwell.  
Take off immediately all contaminated clothing and wash it before reuse.  
Store locked up.  
Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: This product presents no significant hazards under normal conditions of use.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS Number</u>	<u>Concentration</u>
Formaldehyde	Formaldehyde	50-00-0	10.00 %

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

## 4. FIRST AID MEASURES

Have the product container, label, or Safety Data Sheet with you when calling 1-800-498-5743, a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call 1-800-498-5743, a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling 1-800-498-5743 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call 1-800-498-5743, a poison control center or doctor for treatment advice.

Skin Contact: If on skin or clothing: Take off contaminated clothing. Wash skin with soap and water.

Inhalation: Not applicable.

### Most Important Symptoms/Effects:

Not Available

### Indication of immediate medical attention and special treatment needed:

Not Available.

Further information is available from the ProPharma Emergency Number (1-800-498-5743) provided in this document.

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## 5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO<sub>2</sub> extinguishing media. If water is to be used to fight fire, dike and collect run-off.

Specific Hazards:

During a fire, irritating and possible toxic gases may be generated by thermal decomposition of combustion.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or product of combustion.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Clean up spills immediately, observing precautions outlines in Section 8. Sweep up material and place in a compatible disposal container. Once all material is collected, seal container and arrange for disposition.

## 7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure rea out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:

Store locked up.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING, AND USE OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

### Occupational Exposure Limit

<u>Chemical Name</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OTHER</u>	<u>SOURCE</u>
Formaldehyde	0.75 ppm (8-hr TWA) 2.00 ppm (STEL)	0.37 mg/m <sup>3</sup> (TLV)	IARC Group 1 Carcinogen	Not Applicable

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact: Eye protection is not required for normal handling. Where eye contact is likely, wear tight-fitting chemical goggles.

Skin Contact: Gloves are not required for normal handling. Where heavy contact is likely, wear chemical resistant (such as nitrile or butyl) gloves.

Inhalation: Respiratory protection is not required for normal handling. In the event of an unusual dust exposure, use engineering controls or a NIOSH-approved particulate respirator (N, P, R, or HE filter) to keep exposure below the Occupational Exposure Limit.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid  
Odor: Pungent formaldehyde odor  
pH: 3.9  
Melting Point: Not Available  
Freezing Point: Not Available  
Boiling Point and Boiling Range: 100 °C  
Flash Point (Test Method): 51.66°C  
Flammable Limits (% in air): Not Available  
Flammability: Not Available  
Vapor Pressure: 70 mm Hg  
Vapor Density: >1.0 g/ml  
Relative Density: 1.0 g/ml  
Solubility (ies): Soluble  
Partition Coefficient: Not Available  
Viscosity: Not Available  
Other: Not Available

## 10. STABILTY AND REACTIVITY

Reactivity: Not reactive  
Chemical Stability: Stable under normal use and storage conditions  
Possible Hazardous Reactions: Will not occur  
Conditions to Avoid: Excessive heat will release formaldehyde and/or nitrogen oxides  
Incompatible Materials: Acids, bases, and oxidizing materials  
Hazardous Decomposition Products: Formaldehyde

## 11. TOXICOLOGICAL INFORMATION

### Health Effects Information

Likely routes of exposure: Dermal, inhalation, eyes, ingestion  
Symptoms of exposure: Not Available  
Delayed, immediate and chronic effects of exposure: Not Available

### Numerical Measures of Toxicity (Acute Toxicity/Irritation Studies)

Ingestion: Oral LD<sub>50</sub> (Rat): 100 mg/kg body weight  
Dermal: Dermal LD<sub>50</sub> (Rabbit): Not Available  
Inhalation: Inhalation LC<sub>50</sub> (Rat): Not Available.  
Eye Contact: Corrosive, causes irreversible eye damage.  
Skin Contact: Moderate skin irritation.  
Skin Sensitization: Not Available

### Reproductive/Developmental Effects

Not Available

### Chronic/Subchronic Toxicity Studies

Not Available.

### Carcinogenicity

Formaldehyde (CAS 50-00-0) : IARC Group I

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## Other Toxicity Information

Systemically toxic concentrations of this product will probably not be absorbed through human skin.  
No toxic effects are known to be associated with inhalation of dust from this material.  
No irritation is likely to develop following contact with human eyes.  
Irritation will probably not develop following contact with human skin.

## Toxicity of Other Components

Not Applicable

## Target Organs

### Active Ingredients

Not Applicable

### Inactive Ingredients

Not Applicable

## 12. ECOLOGICAL INFORMATION

Do not discharge effluent containing this product directly to water. Do not contaminate water when disposing of equipment wash water.

## 13. DISPOSAL CONSIDERATIONS

Disposal: Do not reuse empty container except for holding additional product.  
Characteristic Waste: Not Applicable  
Listed Waste: Not Applicable

## 14. TRANSPORT INFORMATION

### DOT Classification

Proper Shipping Name: Aviation regulated liwuid, N.O.S. (formaldehyde)  
Hazard Class: 9 (when shipped by air)  
UN Number: 3334  
Packing Group: Not Applicable  
Label: Class 9  
Special Instructions: Not Applicable

### IMDG Classification

Proper Shipping Name: Aviation regulated liwuid, N.O.S. (formaldehyde)  
Hazard Class: 9 (when shipped by air)  
UN Number: 3334  
Packing Group: Not Applicable  
Label: Class 9  
Special Instructions: Not Applicable

### IATA Classification

Proper Shipping Name: Aviation regulated liwuid, N.O.S. (formaldehyde)  
Hazard Class: 9 (when shipped by air)  
UN Number: 3334  
Packing Group: Not Applicable  
Label: Class 9  
Special Instructions: Not Applicable

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## Canadian Classification

Proper Shipping Name: Aviation regulated liwuid, N.O.S. (formaldehyde)  
Hazard Class: 9 (when shipped by air)  
UN Number: 3334  
Packing Group: Not Applicable  
Label: Class 9  
Special Instructions: Not Applicable

## 15. REGULATORY INFORMATION

### Pesticide Registration

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheers and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

Caution: Harmful if swallowed or absorbed through skin. Keep away from children, domestic animals and pets. Do not get in eyes, on skin or on clothing. All handlers (including applicators) must wear shoes plus socks, and gloves. Any person who retrieves carcasses or unused bait following application of this product must wear waterproof gloves.

EPA Registration Number : Not Required

### EPA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: Formaldehyde (CAS 50-00-0)

California Proposition 65 : Formaldehyde (CAS 50-00-0)  
Known in the State of California to cause Cancer

CERLA/SARA 302 Reportable Quantity (RQ) : None

RCRA Hazardous Waste Classification (40 CFR 261): Formaldehyde (CAS 50-00-0)  
4386 pounds of finished product containing 100 pounds of Formaldehyde

TSCA Status: Exempt from TSCA, subject to FIFRA

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## 16. OTHER INFORMATION

### NFPA Hazard Ratings

Health: 3  
Flammability: 1  
Instability: 0

### HMIS Hazard Ratings

Health: 3  
Flammability: 1  
Reactivity: 0  
Other: H

0 - Minimal  
1 - Slight  
2 - Moderate  
3 - Serious  
4 - Extreme  
\* - Chronic

For Non-Emergency Questions About This Product Call:

1-800-621-8829

Neogen Corporation

Lexington, KY

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