

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 05/30/2014 Date of issue: 05/30/2014

Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

<u>Product Identifier</u> <u>Product Form:</u> Mixture

Product Name: ColorBond™ Mordant

Product Code: CBM-6 **Synonyms:** Mordant

Intended Use of the Product

Histology/Cytology General Use reagent. For professional use only. Name, Address, and Telephone of the Responsible Party

Company

StatLab Medical Products 2090 Commerce Drive McKinney, TX 75069 800-442-3573

www.statlab.com

Emergency Telephone Number

Emergency number : CHEMTREC 800-424-9300 (USA & Canada)

CHEMTREC 703-527-3887 (International) Non-transport 800-225-8867 (USA)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US) Skin Irritation 2 H315

Eye Damage 1 H318

Label Elements
GHS-US Labeling

Hazard Pictograms (GHS-US)





Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H315 - Causes skin irritation

H318 - Causes serious eye damage

Precautionary Statements (GHS-US): P264 - Wash hands, forearms, and exposed areas thoroughly after handling.

P280 - Wear eye protection, protective clothing, protective gloves. 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.
P310 - Immediately call a POISON CENTER or doctor/physician.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.

Other Hazards Not available

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Mixture

| Name | Product identifier | % (w/w) | Classification (GHS-US) |
|-------------|--------------------|---------|--------------------------|
| Acetic acid | (CAS No) 64-19-7 | 4.0 | Flammable Liquid 3, H226 |
| | | | Skin Corrosion 1A, H314 |
| | | | Eye Damage 1, H318 |

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| | Aquatic Acute 3, H402 |
|--|-----------------------|

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible). **Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Assure fresh air breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes skin irritation. Causes serious eye damage.

Inhalation: May cause respiratory irritation.

Skin Contact: Causes skin irritation. **Eye Contact:** Causes serious eye damage.

Ingestion: May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract. Chronic Symptoms: Repeated or prolonged skin contact may cause dermatitis and defatting. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Powder, alcohol-resistant foam, water spray, carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: product is not explosive.

Reactivity: Reacts with oxidants increasing fire and explosion hazard.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. **Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂).

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor or mist.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely.

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Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Specific End Use(s)

Histology/Cytology General Use reagent. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Acetic acid (64-19-7) | | |
|-------------------------|--------------------------|----------------------|
| Mexico | OEL TWA (mg/m³) | 25 mg/m³ |
| Mexico | OEL TWA (ppm) | 10 ppm |
| Mexico | OEL STEL (mg/m³) | 37 mg/m³ |
| Mexico | OEL STEL (ppm) | 15 ppm |
| USA ACGIH | ACGIH TWA (ppm) | 10 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 15 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 25 mg/m³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 10 ppm |
| USA NIOSH | NIOSH REL (TWA) (mg/m³) | 25 mg/m³ |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 10 ppm |
| USA NIOSH | NIOSH REL (STEL) (mg/m³) | 37 mg/m³ |
| USA NIOSH | NIOSH REL (STEL) (ppm) | 15 ppm |
| USA IDLH | US IDLH (ppm) | 50 ppm |
| Alberta | OEL STEL (mg/m³) | 37 mg/m ³ |
| Alberta | OEL STEL (ppm) | 15 ppm |
| Alberta | OEL TWA (mg/m³) | 25 mg/m³ |
| Alberta | OEL TWA (ppm) | 10 ppm |
| British Columbia | OEL STEL (ppm) | 15 ppm |
| British Columbia | OEL TWA (ppm) | 10 ppm |
| Manitoba | OEL STEL (ppm) | 15 ppm |
| Manitoba | OEL TWA (ppm) | 10 ppm |
| New Brunswick | OEL STEL (mg/m³) | 37 mg/m³ |
| New Brunswick | OEL STEL (ppm) | 15 ppm |
| New Brunswick | OEL TWA (mg/m³) | 25 mg/m³ |
| New Brunswick | OEL TWA (ppm) | 10 ppm |
| Newfoundland & Labrador | OEL STEL (ppm) | 15 ppm |
| Newfoundland & Labrador | OEL TWA (ppm) | 10 ppm |
| Nova Scotia | OEL STEL (ppm) | 15 ppm |
| Nova Scotia | OEL TWA (ppm) | 10 ppm |
| Nunavut | OEL STEL (mg/m³) | 39 mg/m³ |
| Nunavut | OEL STEL (ppm) | 15 ppm |
| Nunavut | OEL TWA (mg/m³) | 26 mg/m³ |
| Nunavut | OEL TWA (ppm) | 10 ppm |
| Northwest Territories | OEL STEL (mg/m³) | 39 mg/m³ |
| Northwest Territories | OEL STEL (ppm) | 15 ppm |
| Northwest Territories | OEL TWA (mg/m³) | 26 mg/m³ |

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| Northwest Territories | OEL TWA (ppm) | 10 ppm |
|-----------------------|------------------|----------|
| Ontario | OEL STEL (ppm) | 15 ppm |
| Ontario | OEL TWA (ppm) | 10 ppm |
| Prince Edward Island | OEL STEL (ppm) | 15 ppm |
| Prince Edward Island | OEL TWA (ppm) | 10 ppm |
| Québec | VECD (mg/m³) | 37 mg/m³ |
| Québec | VECD (ppm) | 15 ppm |
| Québec | VEMP (mg/m³) | 25 mg/m³ |
| Québec | VEMP (ppm) | 10 ppm |
| Saskatchewan | OEL STEL (ppm) | 15 ppm |
| Saskatchewan | OEL TWA (ppm) | 10 ppm |
| Yukon | OEL STEL (mg/m³) | 43 mg/m³ |
| Yukon | OEL STEL (ppm) | 25 ppm |
| Yukon | OEL TWA (mg/m³) | 25 mg/m³ |
| Yukon | OEL TWA (ppm) | 10 ppm |

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment: Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection. Protective clothing.









Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist

are expected to exceed exposure limits.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State : Liquid

Appearance : Clear, colorless liquid

Odor : Slight

Odor Threshold : Not available

pH : 2-3

Relative Evaporation Rate (butylacetate=1) Not available **Melting Point** Not available **Freezing Point** Not available **Boiling Point** 100 °C (212 °F) **Flash Point** Not available **Auto-ignition Temperature** Not available **Decomposition Temperature** Not available Flammability (solid, gas) Not available **Lower Flammable Limit** Not available **Upper Flammable Limit** Not available **Vapor Pressure** Not available Relative Vapor Density at 20 °C Not available **Relative Density** 1 (water = 1)

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Specific Gravity Not available Solubility Soluble in water Log Pow Not available Log Kow Not available Viscosity, Kinematic Not available Viscosity, Dynamic Not available Explosion Data – Sensitivity to Mechanical Impact : Not available Explosion Data - Sensitivity to Static Discharge Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Reacts violently with oxidants causing fire and explosion hazard.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes skin irritation. (pH: 2 – 3)

Serious Eye Damage/Irritation: Causes serious eye damage. (pH: 2 – 3)

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available **Carcinogenicity:** Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Causes skin irritation.
Symptoms/Injuries After Eye Contact: Causes serious eye damage.

Symptoms/Injuries After Ingestion: May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: Repeated or prolonged skin contact may cause dermatitis and defatting.

<u>Information on Toxicological Effects - Ingredient(s)</u>

LD50 and LC50 Data:

| Acetic acid (64-19-7) | |
|----------------------------|----------------------------|
| LD50 Oral Rat | 3310 mg/kg |
| LD50 Dermal Rabbit | 1060 μl/kg |
| LC50 Inhalation Rat (mg/l) | 11.4 mg/l/4h |
| ATE (oral) | 3310.000 mg/kg body weight |
| ATE (dust, mist) | 11.400 mg/l/4h |

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - Water: Readily bioldegrades. Evaporates to moderate extent. Does not bioaccumulate.

| Acetic acid (64-19-7) | |
|-----------------------|---|
| LC50 Fish 1 | 79 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 1 | 65 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| LC 50 Fish 2 | 75 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |

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| Persistence and Degradability | The substance is biodegradable. Unlikely to persist. | |
|----------------------------------|--|--|
| Bioaccumulative Potential | | |
| Bioaccumulative Potential | Not expected to bioaccumulate. | |
| Acetic acid (64-19-7) | | |
| Log Pow | -0.31 (at 20 °C) | |

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/DOT/TDG

UN Number Not regulated for transport

UN Proper Shipping Name Not regulated for transport

<u>Transport by sea</u> Not regulated for transport

Air transport Not regulated for transport

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

| ColorBond™ Mordant | |
|-------------------------------------|---------------------------------|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Acetic acid (64-19-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State Regulations

Acetic acid (64-19-7)

- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Louisiana Reportable Quantity List for Pollutants
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 2
- U.S. Massachusetts Right To Know List
- U.S. Massachusetts Toxics Use Reduction Act
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Michigan Polluting Materials List
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- U.S. New Jersey Right to Know Hazardous Substance List

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- U.S. New Jersey Special Health Hazards Substances List
- U.S. New York Occupational Exposure Limits TWAs
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. North Carolina Control of Toxic Air Pollutants
- U.S. North Dakota Air Pollutants Guideline Concentrations 1-Hour
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 40 Feet to Less Than 75 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 75 Feet or Greater
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights Less Than 25 Feet

Canadian Regulations

WHMIS Classification

Class E - Corrosive Material

Class D Division 2 Subdivision B - Toxic material causing other toxic effects





Acetic acid (64-19-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

WHMIS Classification Class B Division 3 - Combustible Liquid

Class E - Corrosive Material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION

Revision date : 05/30/2014

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

| Aquatic Acute 3 | Hazardous to the aquatic environment - Acute Hazard Category 3 |
|--------------------|--|
| Eye Damage 1 | Serious eye damage/eye irritation Category 1 |
| Flammable Liquid 3 | Flammable liquids Category 3 |
| Skin Corrosion 1A | Skin corrosion/irritation Category 1A |
| Skin Irritation 2 | Skin corrosion/irritation Category 2 |
| H226 | Flammable liquid and vapor |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |
| H402 | Harmful to aquatic life |

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: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA Health Hazard

NFPA Fire Hazard : 1 - Must be preheated before ignition can occur.

NFPA Reactivity : 0 - Normally stable, even under fire exposure conditions, and are not

reactive with water.

HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard
Physical : 0 Minimal Hazard



StatLab Medical Products Phone Number: 800-442-3573

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS

