

Material Safety Data Sheet

Product Trade Name: **BRIGHTENER 200**

ID: Q012

*** Section 1 - Chemical Product and Company Identification ***

Product Trade Name: BRIGHTENER 200

Manufacturer Information

Heatbath Corporation

P.O. Box 51048

Indian Orchard, MA 01151-5048

Contact Phone: (413) 452-2000

8:00 AM-5:00PM

CHEMTREC Emergency Phone: (800) 424-9300
24 Hours

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
000050-00-0	Formaldehyde	<0.1%

Component Related Regulatory Information:

This product may be regulated, have exposure limits or other information identified as the following:
Formaldehyde (000050-00-0).

Additional Information:

This product is not considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

*** Section 3 - Hazards Identification ***

Emergency Overview:

CAUTION! - Contact with this material can cause irritation to the skin, eyes and mucous membranes.

Eye Contact:

This product is irritating to the eyes.

Skin Contact:

This product may irritate the skin. Contact with the skin or mucous membranes may cause irritation.

Skin Absorption:

Not expected for this product.

Ingestion:

This product may cause irritation to the throat, esophagus, and gastrointestinal tract if it is swallowed.

Inhalation:

Inhalation of dusts or mists of this product may cause irritation to the nasal passages and respiratory tract.

Medical Conditions Aggravated by Exposure:

Pre-existing eye, skin, gastrointestinal and respiratory disorders may be aggravated by exposure.

*** Section 4 - First Aid Measures ***

Eye Contact:

If this chemical contacts the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Do not wear contact lenses when working with chemicals.

Skin Contact:

If this chemical contacts the skin, promptly wash the contaminated skin with water. If this chemical penetrates the clothing, promptly remove the clothing and wash the skin with water. If irritation persists or develops after washing, get medical attention.

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Ingestion:

If this chemical has been swallowed, get medical attention immediately. Give victim several glasses of water to drink. Vomiting may occur spontaneously; do not induce vomiting. Do not give anything by mouth to an unconscious person.

Inhalation:

If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. Other measures are usually unnecessary. If breathing difficulty persists or develops, get prompt medical attention.

First Aid: Notes to Physician

No additional information is available.

*** Section 5 - Fire Fighting Measures ***

Flash Point:	> 212 °F	Upper Flammable Limit (UFL):	Not applicable
Flammability Classification:	Nonflammable	Lower Flammable Limit (LFL):	Not applicable

Fire & Explosion Hazards:

None expected. This product is an aqueous solution.

Extinguishing Media:

Use any media suitable for the surrounding fires.

Fire-Fighting Instructions:

Firefighters: Wear full protective clothing including self-contained breathing apparatus. Properly decontaminate all equipment after use.

*** Section 6 - Accidental Release Measures ***

Containment and Clean up procedures must be conducted in accordance with all local, state, and federal regulations.

Containment Procedures:

Stop the flow of material, if this can be done without risk. Wear appropriate protective equipment and clothing during clean up.

Clean-Up Procedures:

Absorb spill with inert material and transfer material into appropriate container(s) for disposal. Dispose of collected material according to local, state, and federal regulations.

*** Section 7 - Handling and Storage ***

Handling Procedures:

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Use with adequate ventilation. This product is for industrial use only. Do not take internally.

Storage Procedures:

Keep container tightly closed when not in use. Store in a cool, well-ventilated area away from incompatible materials. Avoid freezing (<32 °F) or excessive heat (>110 °F).

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines:

A: General Product Information

Follow all applicable exposure limits. Keep formation of airborne mists to a minimum.

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B: Component Exposure Limits

Formaldehyde (000050-00-0)

ACGIH: 0.3 ppm ceiling

OSHA: 0.75 ppm PEL, 2 ppm STEL

NIOSH: 0.016 ppm TWA; 0.1 ppm ceiling

Engineering Controls:

Set up ventilation to effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face Protective Equipment:

Wear appropriate eye protection to prevent eye contact.

Skin Protection:

Wear appropriate personal protective clothing to prevent skin contact. The worker should immediately wash the skin when it becomes contaminated. Remove wet or significantly contaminated work clothing and replace.

Respiratory Protection:

If ventilation is not sufficient to effectively prevent buildup of mists or vapors, provide appropriate NIOSH/MSHA respiratory protection.

Personal Protective Equipment:

Provide eyewash fountains in areas where there is any possibility that workers could be exposed to the substance; this is irrespective of the recommendation involving the wearing of eye protection. Provide facilities for quickly drenching the body within the immediate work area for emergency use where there is a possibility of exposure. Depending on the specific circumstances, a deluge shower, a sink or hose could be considered adequate.

*** Section 9 - Physical & Chemical Properties ***

Physical State: Liquid	Appearance: Clear, pale amber
Odor: None	Vapor Pressure: ND
Vapor Density: NA	Boiling Point: >212 °F (100 °C)
Specific Gravity: 1.14	pH: 4 - 6
Viscosity: ND	VOC: None
Solubility Water: Complete	Evaporation Rate: ND
Percent Volatile: NA	Percent Solids: ND

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability:

Stable under normal conditions.

Conditions to Avoid:

Avoid freezing, Keep away from excessive heat and incompatible materials.

Incompatibility:

Do not expose this product to strong oxidizers or strong acids.

Decomposition Products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide, low molecular weight hydrocarbons.

Hazardous Polymerization:

Will not occur.

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*** Section 11 - Toxicological Information ***

Acute Toxicity:

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

Formaldehyde (000050-00-0)

Inhalation LC50 (Rat): 203 mg/m³
Inhalation LC50 (Mouse): 454 gm/m³/4H
Oral LD50 (Rat): 100 mg/kg
Oral LD50 (Mouse): 42 mg/kg
Dermal LD50 (Rabbit): 270 µL/kg

Carcinogenicity:

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

Formaldehyde (000050-00-0)

IARC: Group 2A (probably carcinogenic to humans) – Monograph 62, 1995
NTP: Suspect carcinogen
OSHA: Suspect carcinogen
ACGIH: A2 – suspected human carcinogen (see exposure limits)
NIOSH: Occupational human carcinogen

Chronic Toxicity

No information available for the product.

Other Toxicological Information:

None available.

*** Section 12 - Ecological Information ***

Ecotoxicity:

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Formaldehyde (000050-00-0)

Test & Species	Amount	Conditions
LC50 (96 hr) fathead minnow	24.1 mg/L	Flow-through, 21.7 °C, pH:6.8, 50.8 mg/L CaCO ₃
LC50 (96 hr) bluegill	0.1 mg/L	Flow-through
EC50 (96 hr) water flea	20 mg/L	
EC50 (30 min) Photobacterium phosphoreum	3.00-10.2 mg/L	Microtox test

Environmental Fate:

No data available for this product.

*** Section 13 - Disposal Considerations ***

Wastes must be tested using methods described in 40 CFR Part 261. It is the generator's responsibly to determine if the waste meets applicable definitions of hazardous wastes. State and local regulations may differ from Federal disposal regulations. Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.

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*** Section 14 - Transportation Information ***

US DOT Information

Proper Shipping Name NOT D.O.T. REGULATED
Hazard Class
UN / NA Number
Packing Group
Product RQ (lb)

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

No additional information available.

B: Component Analysis

This material contains one or more of the following chemicals, requiring identification under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

Formaldehyde (000050-00-0)

SARA 302: TPQ = 500 pounds; RQ = 100 pounds

SARA 313: Form R reporting required for 0.1% de minimis concentration

CERCLA: Final RQ = 100 pounds (45.4 kg)

SARA 311/312: Acute: Yes **Chronic:** No **Fire:** No **Pressure:** No **Reactive:** No

State Regulations

A: General Product Information

No information available.

B: Component Analysis - State

Component	CAS #	CA	FL	MA	MN	NJ	PA	RI
Formaldehyde	000050-00-0	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis - Inventory

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Formaldehyde	000050-00-0	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Formaldehyde	000050-00-0	0.1% item 781 (918)

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***** Section 16 – Other Information *****

NFPA Ratings: **Health:** 1 **Fire:** 0 **Reactivity:** 0 **Other:**
 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS Ratings: **Health:** 1 **Fire:** 0 **Reactivity:** 0 **Personal Protection:**
 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

MSDS Change History:

3/12/03: Rev.04/Control # MSDS0053; MSDS as issued by Chemtech Finishing Systems.
 1/18/05: Chemtech Finishing Systems acquired by Heatbath Corporation.
 6/12/06: Rev.05; Chemtech MSDS issued under new manufacturer: Heatbath Corporation.
 Sec.1 - Manufacturer Information Updated
 Sec.16 - MSDS Change History section added

Key/Legend:

ACGIH = American Conference of Governmental Industrial Hygienists	NFPA = National Fire Protection Association
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act	NIOSH = National Institute for Occupational Safety and Health
EPA = Environmental Protection Agency	NTP = National Toxicology Program
HMIS = Hazardous Material Identification System	OSHA = Occupational Safety and Health Administration
IARC = International Agency for Research on Cancer	SARA = Superfund Amendments and Reauthorization Act
MSHA = Mine Safety and Health Administration	TSCA = Toxic Substance Control Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Heatbath Corporation bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

This is the end of MSDS for BRIGHTENER 200.