

Safety Data Sheet

Product Trade Name: **CHLOROMAX 3800 BRT**

ID: H157

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

Product Trade Name: **CHLOROMAX 3800 BRT**

Manufacturer Information

Heatbath Corporation

P.O. Box 51048
Indian Orchard, MA 01151-5048

Contact Phone: (413) 452-2000
8:00 AM - 5:00 PM

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

CHEMTREC International: (703) 527-3887

Recommended Use: Brightener for acid zinc plating bath

Restrictions on Use: See Incompatibility, Section 10

*** Section 2 - Hazards Identification ***

OSHA Hazard Communication Standard: Considered a Hazardous Substance by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Not classified as Dangerous Goods for transport purposes.

Hazard Classification: Skin Sensitizer Category 1

Labeling:



Signal Word: WARNING!

Hazard Statements: May cause an allergic skin reaction

PREVENTION: Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace.

FIRST AID/IN CASE OF FIRE: Specific treatment (see advice in section 4). IF ON SKIN: Wash with plenty of water/... If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

DISPOSAL: Dispose of contents/container in accordance with all local, regional, national and/or international regulations.

Hazards Not Otherwise Classified: N.A.

Percent of Ingredients of Unknown Toxicity: N.A.

*** Section 3 - Composition / Information on Ingredients ***

HAZARDOUS INGREDIENT	CAS #	PERCENT
ALDEHYDE BISULFITE ADDUCT (T.S.)	T.S.	1 - 10% (T.S.)

T.S. = Trade Secret

*per CFR 29, Part 1910.1200; ingredients listed only if deemed hazardous and comprise 1% or greater of the composition (0.1% or greater for carcinogens).

Component Related Regulatory Information: This product may be regulated, have exposure limits or other information identified.

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

If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay. Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Center or a doctor.

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

Flash Point: None.

Upper Flammable Limit N.A.

Flammable Limits: None.

Lower Flammable Limit N.A.

Extinguishing Media, PPE and Guidance for FireFighter: There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area. Alert Fire Department and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use firefighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards: Noncombustible. Not considered a significant fire risk, however containers may burn. May emit poisonous fumes. May emit corrosive fumes.

Decomposition Products: Sulfur dioxide, ammonia, hydrogen chloride, phosgene, oxides of carbon

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

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

Containment and Clean-Up Procedures: Clean up all spills immediately. Avoid breathing vapors and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal. Moderate hazard. Clear area of personnel and move upwind. Alert Fire Department and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralize/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean-up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services.

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

Handling and Storage Procedures: Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this MSDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. DO NOT allow clothing wet with material to stay in contact with skin. Emptied containers of this product may contain hazardous vapors and residue. Clean thoroughly before reusing or discarding. Do not use a welding torch to cut container. Do not use for water or food storage. Product freezes @ 40° F - Ruined.

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*** 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.

B. Component Exposure Limits:

CAS #	HAZARDOUS INGREDIENT	OSHA PEL(mg/m3)	ACGIH TLV(mg/m3)
T.S.	AMMONIUM BISULFITE ADDUCT	N.E.	N.E.

*OSHA-PEL and ACGIH-TLV are 8-Hour TWA unless otherwise noted.

*per CFR 29, Part 1910.1200; ingredients listed only if deemed hazardous and comprise 1% or greater of the composition (0.1% or greater for carcinogens).

Engineering Controls: Set up ventilation to effectively remove and prevent buildup of any dust, 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 dust, 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

Color: Colorless liquid, pungent odor.

pH: 3-5

Specific Gravity: 1.05

Evaporation Rate: N.E.

Solubility Water: Soluble.

Vapor Density: N.E.

Vapor Pressure: N.E.

Octanol-Water Coefficient: N.E.

Boiling Point: N.E.

Melting Point: Not Applicable

Flash Point: Not Available

Auto-Ignition Temperature: N.E.

Decomposition Temperature: N.E.

Flammability Limits - Low: N.A.

Hi: N.A.

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

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Chemical Stability: Unstable in the presence of incompatible materials. Product is considered stable.

Conditions to Avoid: None

Incompatibility: Strong oxidizing agents, acids and alkali.

Decomposition Products: See section 5

Hazardous Polymerization: Will not occur.

*** Section 11 - Toxicological Information ***

Route of Exposure: Eye/skin contact, inhalation, ingestion.

Acute Toxicity:

A: General Product Information

Eye Contact: This material can cause eye irritation and damage in some persons.

Skin Contact: This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition. Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this material. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

Skin Absorption: No information available for this product.

Ingestion: The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.

Inhalation: The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Not normally a hazard due to non-volatile nature of product. The material has NOT been classified by EC Directives or other classification systems as "harmful by inhalation". This is because of the lack of corroborating animal or human evidence.

Chronic Hazards: Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Chronic minor exposure to hydrogen chloride (HCl) vapor or fume may cause discoloration or erosion of the teeth, bleeding of the nose and gums; and ulceration of the nasal mucous membranes. Repeated exposures of animals to concentrations of about 34 ppm HCl produced no immediate toxic effects. Workers exposed to hydrochloric acid suffered from gastritis and a number of cases of chronic bronchitis have also been reported. Repeated or prolonged exposure to dilute solutions of HCl may cause dermatitis.

Carcinogenicity:

a: Component Carcinogenicity:

None.

NTP: No.
OSHA: No.

IARC: No.

*** Section 12 - Ecological Information ***

Ecotoxicity:

A: General Product Information

No information available for this product.

B. Component Analysis - Ecotoxicity - Aquatic Toxicity:

No information available for this product.

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Persistence and Mobility: No information available for this product

Environmental: DO NOT discharge into sewer or waterways.

Mobility in Soil: No information available.

*** Section 13 - Disposal Considerations ***

Wastes must be tested using methods described in 40 CFR Part 261. It is the generator's responsibility 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.

*** Section 14 - Transportation Information ***

US DOT Information: COMPOUNDS, PROPRIETARY ELECTROPLATING ADDITIVE, NOT D.O.T. REGULATED

Marine Pollutant: No

IMDG Classification: None

IATA Classification: None

The data provided in this section is for information only and may not be specific for the package size or mode of transportation. See package label for further details.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

No additional information available.

B: Component Analysis

This material may contain 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).

HAZARDOUS COMPONENT	CERCLA RQ LBS.	SECT 302 TPQ LBS.	SECT 313* TOXIC	Maximum %
AMMONIUM BISULFITE ADDUCT	5000	N.A	NO	10

Sara 311/312 Hazards:

Immediate (Acute)	TRUE
Chronic*	FALSE
Fire	FALSE
Sudden Release-of-Pressure	FALSE
Reactive	FALSE

State Regulations

A: General Product Information

No additional information available.

Other Regulations

A: General Product Information

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

B: Component Analysis - Inventory

*** Section 16 - Other Information ***

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Revision Date:

Rev. 1, June 1, 2015

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 SDS for CHLOROMAX 3800 BRT.