

MATERIAL SAFETY DATA SHEET

SECTION 1: (Product Name, Description, Manufacturer, and Emergency Numbers)

Product Name: ClorAm-X®

Description:

AquaScience Research Group, Inc.
1100 Gentry Street
North Kansas City, MO 64116

Manufacturer:

Emergency Telephone Numbers:

816/842-5936
816/891-6671

SECTION 2: (Product Composition and Common Name)

Chemical Composition:

Sodium Hydroxymethanefulfonate, 100%

Common Name: See "Product Name"

SECTION 3: (Hazard Identification)

Hazardous Ingredients:

None

Other Ingredients:

None

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Section 4: (First Aid Measures)

Emergency First Aid Procedures:

Eye contact: Flush with water for at least 15 minutes
Skin contact: Wash exposed areas with soap and water. If irritation occurs, get medical attention.
Inhalation: Not an inhalation hazard.
Ingestion: Treat symptomatically. For sour or salty taste give sweetened drink.

SECTION 5: Fire Fighting Measures

In Case of Fire:

CAUTION! Wear appropriate protective equipment and NIOSH/MSHA approved respirator where mists or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred).

Recommended

Extinguishing Media: No special extinguishing media nor equipment are needed

Special Fire Fighting Procedures:

Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

SECTION 6: Accidental Release Measures

In Case of Spill or Accidental Release or Leak:

Spills and accidental release may be rinsed to sanitary sewers

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SECTION 7: Handling and Storage Information

Product Storage: Keep container upright and tightly closed when not in use, and do not add any other materials to the container (including unused material originally removed from the container)

SECTION 8: Exposure Control and Personal Protection

Respiratory Protection: Non-specific (general) dust protection when handling the powder.

Local Exhaust: None required

Protective Gloves: None required

Eye Protection: None required

Other Protective Equipment: None required

SECTION 9: Physical and Chemical Properties:

Boiling Range: N.A.

Specific Gravity: N.A.

Vapor Pressure at 20°C (in mm of Hg): N.A.

Vapor Density (air = 1): N.A.

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Solubility in Water:

Viscosity: Soluble

Melting or Freezing Point:

N.A.

Evaporation Rate (n-butanol = 1):

N.A.

% Volatiles:

Not volatile

Appearance and Odor:

Odorless to slight, mild odor, white powder

pH:

5.0 to 9.0

SECTION 10: Stability and Reactivity:

Stability:

Stable

Conditions to Avoid: Incompatibility :

Inactivated by strong oxidizing substances (e.g. chlorine bleaches, permanganates, free iodine) and strong acids and bases (e.g. hydrochloric acid, sodium hydroxide)

Hazardous Decomposition Products:

May produce sulfur dioxide under conditions of exposure to fire

Hazardous Polymerization:

Will not occur

SECTION 11: Toxicological Information

Threshold Limit Value:

21% aqueous solution is non-toxic (by acute oral mammalian toxicity tests) at 5,000 mg/Kg

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Effects of

Overexposure:

No reported inhalation danger; prolonged exposure to the skin may result in a rash. No health effects information available. As with all products of unknown toxicity, avoid unnecessary exposure. Overexposure may aggravate existing conditions. No effects indicated.

Additional Health

Considerations:

Persons with pre-existing skin disorders or eye irritations should avoid contact with eyes and skin

SECTION 12: Eco- logical Information

Environmental Warn- ings:

Product is labeled, and intended, for use with both fresh-water and saltwater fishes, aquatic plants, aquatic invertebrates and other aquatic vertebrates (e.g. reptiles and amphibians). Use in aquaculture is permissible, under regulations of the U.S. Food and Drug administration, for fishes and aquatic invertebrates (e.g. lobsters, shrimp and crabs) intended for human consumption.

SECTION 13: Dis- posal Information

Waste Disposal

Procedures:

Dispose of in compliance with all Federal, state and local laws and regulations. Incineration is the preferred method.

Container Disposal:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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SECTION 14: Transport Information

D.O.T. Hazard Classification:

none

D.O.T. Label/Placards:

none required

UN or NA Number: none

Reportable Quantity: none

Shipping Description: for powder: "Cleaning compound", #59370, supplement NMF100C, Class 55

SECTION 15: Regulatory Information

STATE

WARNINGS: **California Proposition 65:** This product not known to contain any detectable amounts of any chemical or chemicals known to the State of California to cause cancer/birth defects or other reproductive harm.

SECTION 16: Other Information

Lower Flammability Limits (% in air):

Not known

Flash Point (and methods):

Not flammable

Flammability Classification:

Nonflammable

Unusual Fire/Explosion Hazards:

Products of combustion may be toxic.

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Synonyms: formaldehyde sodium bisulfite; sodium formaldehydebisulfite; methylolsulfonic acid sodium salt

Chemical Family: reducing agent

Chemical Formula: HOCH_2SO_3

Formula CAS No.:

sodium hydroxymethanesulfonate: 870-72-4

Molecular Weight:

134.09

Effective Date:

11/19/08

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