

Material Safety Data Sheet

CHEMI-CLEAN

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Distributor: Boyd Enterprises
1670 NE 205 Terrace
Miami, FL 33179
Ph: 305-651-2496
Fax: 305-651-2496

Section 1--Ingredients

Section 2--Physical data

Appearance: White powder

Section 3--First Aid Measures

Inhalation: Remove to fresh air
Ingestion: Wash out mouth with water.
Skin contact: Immediately flush skin with copious amounts of water.
Eye contact: Immediately flush eyes with copious amounts of water

Section 4--Hazard Data

May Cause sensitization by inhalation and skin contact.
In case of accident or if you feel unwell. Seek out medical advice. Bring at least the label of product with you

Section 5--Fire Fighting Methods

Fire: Emits toxic fumes under fire conditions
Explosion: not applicable
Fire extinguishing Media: Water spray, or applicable foam.
Special information: Wear appropriate protective gear for toxic fumes.

Section 6--Accidental Release Measures

Remove all possible ignition sources. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8
Spills: Sweep up, place in bag and hold for waste disposal. Avoid raising dust, wash spill site after material pickup is complete.

Section 7--Handling and Storage

Keep tightly closed. Store in a cool, dry place. Refer to Section 8

Section 8--Exposure Control / Personal Protection

Ventilation system: Mechanical exhaust required. Avoid Prolonged or repeated exposure.
Personal Respirators: Wear appropriate NIOSH respirator
Skin Protection: Compatible chemical-resistant gloves; lab coat, apron or coveralls; boots, avoid prolonged or repeated exposure. Wash thoroughly after handling
Eye Protection: Use Chemical safety goggles and/or full face-shield where dusting or splashing of solutions is possible.

Section 9--Toxicological Information

Acute effects: May be harmful by inhalation, ingestion, or skin absorption. May cause allergic reaction.
Exposure can cause: stomach pains, vomiting, and diarrhea

To the best of our knowledge, the chemical-physical, and toxicological properties have not been thoroughly investigated.

LD 50 (oral - mouse) > 10 g/kg

Target Organ Data: Behavioral (ataxia)
Gastrointestinal (nausea or vomiting)
Liver (other changes)

Section 10---Ecological Information

Ecological Fate: No information found

Ecological toxicology: No information found

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Chemi-pure

Distributor: Boyd Enterprises, Inc.
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Section 1: Ingredients

Activated carbon and Ion-exchange resins

Section 2: Physical data

Appearance: comes packaged in a nylon filter pouch, various sized black and dark colored granules.

Section 3: First Aid Measures

Skin: Wash material off the skin with soap and water. Seek medical attention if irritation occurs.

Eyes: flush with copious amounts of water. Seek medical attention if irritation occurs.

Ingestion: Give one or two glasses of water to drink. Seek medical attention if gastrointestinal symptoms develop.

Inhalation: Remove to fresh air. Seek medical attention if cough or respiratory symptoms develop.

Section 4: Hazard Data

Effect of acute exposure to product: Can product mechanical irritation to the eyes. May cause skin irritation of hypersensitive personnel.

Effect of chronic exposure to product: Mechanical irritation to the eyes and skin irritation to hypersensitive personnel.

Exposure limits: No

Carcinogenicity: No

Teratogenicity: No

Mutagenicity: No

Reproductive Toxicity: No

Section 5: Accidental Release Measures

The materials are in their original state and are not harmful to the environment. Normal disposal and clean up measures can be used without any harm.

Section 6: Handling and Storage

Can be safely stored in any normal storage area, but keep away from sources of heat.

Section 7: Exposure controls, Personal Protection

Personal protective equipment: Wear impervious gloves and splash goggles while handling any exposed ingredients.

Other protective clothing or equipment: Long sleeve shirts and long trousers is recommended to prevent skin contact.

Work/hygienic practices: Flush product from hands with soapy water. Care should be taken to avoid contact with eyes until hands have been completely cleaned. Product has a tendency to cling to skin due to static charge. Care must be exercised to remove all product from skin. The product can be slippery when spilled, and can cause falls. Sweep up spilled material in a transfer for proper disposal.

Section 8: Toxicological Information

The materials are in their original state. Used product may exhibit characteristic of the absorbed materials/waste.

Section 9: Ecological Information

The materials are in their original state and are not harmful to the environment. Used product may exhibit characteristics of the absorbed materials/waste.

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REF ESSENTIALS IODINE

Distributor: Boyd Enterprises, Inc.
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Section 1: Ingredients

Potassium Iodide

Section 2: Physical data

Appearance: Clear Liquid

Section 3: First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes occasionally lifting the upper and lower lids. Get medical aid

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure to fresh air immediately. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear

Section 4: Hazard Data

Eye: causes eye irritation

Skin: May cause skin irritation

Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea

Inhalation: May cause respiratory tract irritation

Section 5: Accidental Release Measures

General information: Use proper personal protective equipment as indicated

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposable container.

Section 6: Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation

Storage: Store in a cool, dry, well ventilated area away from incompatible substances

Section 7: Exposure controls, Personal Protection

Use adequate ventilation to keep airborne concentrations low.

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in CFR 1910.133

Skin: Wear appropriate protective gloves to prevent skin exposure

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Section 8: Toxicological Information

Carcinogenicity: Potassium Chloride – not listed by ACHIH, IARC, NIOSH NTP, or OSHA.

Epidemiology: no data available

Teratogenicity: Iodine can cause deformity, illness, and death of a fetus.

Reproductive Effects: no data available

Neurotoxicity: no data available

Mutagenicity: no data available

Section 9: Ecological Information

Ecotoxicity: This chemical is expected to cause little oxygen depletion in aquatic situations. This chemical has a moderate potential to affect aquatic organisms.

Environmental Fate: If diluted with a large amount of water, this chemical released directly or indirectly into the environment is not expected to have a significant impact.

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REEF ESSENTIALS KALCIUM

Distributor: Boyd Enterprises, Inc.
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Section 1: Ingredients
 Calcium Hydroxide

Section 2: Physical data
 Appearance: White Powder

Section 3: First Aid Measures
 Eyes: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used.
 Skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing; before reuse. Thoroughly clean shoes before reuse. Wash skin with an anti-bacterial soap.
 Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
 Inhalation: Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen, get medical attention.

Section 4: Hazard Data
 Eye: Causes irritation can result in corneal damage or blindness. Amount of damage depends on length of contact.
 Skin: Can produce inflammation and blistering.
 Ingestion: Will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, squeezing and coughing.

Section 5: Accidental Release Measures
 General information: Use proper personal protective equipment as indicated.
 Spills/Leaks: Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary, neutralize the residue with a dilute solution of acetic acid. For large spills, do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas (dike if needed).

Section 6: Handling and Storage
 Keep container dry. Do not ingest. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or label. Avoid contact with skin and eyes. Keep away from incompatibles such as acids.
 Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 7: Exposure controls, Personal Protection
 Engineering controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
 Personal protection: Splash goggles, synthetic apron, vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Section 8: Toxicological Information
 Routes of Entry: Absorbed through skin, inhalation and ingestion.
 Chronic effects on humans: not available
 Other toxic effects on humans: Extremely hazardous in case of eye contact, skin contact, ingestion, and inhalation.

Section 9: Ecological Information

Ecotoxicity: Not available

Biodegradation: The product itself and its products of degradation are not biodegradable.

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REEF ESSENTIALS STRONTIUM

Distributor: Boyd Enterprises, Inc.
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Section 1: Ingredients

Strontium Chloride Hexahydrate

Section 2: Physical data

Appearance: Clear Liquid

Section 3: First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes occasionally lifting the upper and lower lids. Get medical aid

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear

Section 4: Hazard Data

Eye: causes eye irritation

Skin: May cause skin irritation

Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea

Inhalation: May cause respiratory tract irritation

Section 5: Accidental Release Measures

General information: Use proper personal protective equipment as indicated

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Section 6: Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation

Storage: Store in a cool, dry, well ventilated area away from incompatible substances

Section 7: Exposure controls, Personal Protection

Use adequate ventilation to keep airborne concentrations low.

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in CFR 1910.133.

Skin: Wear appropriate protective gloves to prevent skin exposure

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Section 8: Toxicological Information

Carcinogenicity: Strontium chloride hexahydrate -- not listed by ACHIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: no data available

Teratogenicity: Iodine can cause deformity, illness, and death of a fetus.

Reproductive Effects: no data available

Neurotoxicity: no data available

Mutagenicity: no data available

Section 9: Ecological Information

No information available

Material Safety Data Sheet

Vita-chem Marine and Freshwater

Distributor: Boyd Enterprises, Inc.
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Section 1: Ingredients

Raw water-soluble vitamins with a water base.

Section 2: Physical data

Appearance: Comes in liquid form, off white/yellowish in color. Packaged in bottles for dispensing.

Section 3: First Aid Measures

Skin: Wash affected with water and soap – do not use any solvents.

Eyes: Rinse immediately with tap water for 10 minutes – open eyelids for 10 min.

Ingestion: Give one or two glasses of water to drink. Seek medical attention if gastrointestinal symptoms develop.

Section 4: Hazard Data

Acute effects: May cause skin irritation. May cause allergic reactions. May cause gastrointestinal effects. Signs and symptoms may cause nausea, diarrhea, constipation, cramps, and loss of appetite.

Section 5: Accidental Release Measures

The materials are in their original state and are not harmful to the environment. Normal disposal and clean up measures can be used without any harm. Rinse with plenty of water.

Section 6: Handling and Storage

Can be safely stored in any normal storage area, but keep away from source of heat.

Section 7: Exposure controls, Personal Protection

Hand protection – protective gloves (eg made of neoprene, nitrile, or butyl rubber).

Eye protection – safety glasses.

Section 8: Toxicological Information

Local effects – may irritate skin and eyes.

Section 9: Ecological Information

Ready biodegradability – 85% within 28 days.