

PRO CHEM, INC.

1475 BLUEGRASS LAKES PKWY.
ALPHARETTA, GA 30004
EMERGENCY/INFO # (800) 241-8180
ADDITIONAL EMERGENCY # INFO TRAC 1-800-535-5053

MATERIAL SAFETY DATA SHEET**CLEAN AIR / 2344****APRIL 2010****PAGE 1**

HEALTH	1
FIRE	0
REACTIVITY	1
P.P.E.	

Complies With USDL Safety and Health Regulations, (29 CFR 1910.200)

SECTION 1 – Chemical and Company Identification**CHEMICAL FAMILY:****SECTION 2 – Composition on Ingredients**

CHEMICAL NAME	CAS #	% BY WT.
Sodium Chlorite	7758-19-2	.17%

SECTION 3 – Hazards Information

EMERGENCY OVERVIEW: Clear liquid with very faint chlorinous odor. May cause skin reaction. May cause eye irritation.

POTENTIAL HEALTH EFFECTS:

INHALATION: Clean Air normally has no respiratory effects. If exposure to chlorine dioxide produced from activation occurs, remove victim to fresh air. Consult a physician if respiratory distress continues.

SKIN: Based on rabbit studies, product is listed as “practically not an irritant”. Prolonged exposure may produce localized irritation, contact dermatitis, mild erythema and edema.

EYE: Based on rabbit studies, product has been given an EPA Toxicity Category IV rating as a mild irritant with minimal effects. Exposure can produce slight irritation of conjunctiva, cornea and eyelid.

INGESTION: Ingestion may produce gastric discomfort, nausea, vomiting and diarrhea. Intake of large quantities may produce methemoglobinemia.

SYSTEMS OF OVEREXPOSURE: Skin and eye irritation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin disorders, such as dermal allergies and dermatitis.

CHRONIC EXPOSURE EFFECTS: May cause localized irritation to areas exposed to product.

SECTION 4 – First Aid Measures

The following procedures are recommended as emergency first aid only. They are not intended to replace or supplant the treatment advice of a physician or other authorized health care specialist.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. Call poison control center or doctor for further treatment advice.

SKIN CONTACT: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

EYE CONTACT: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: Chlorine dioxide vapors are emitted when this product contacts acids or chlorine. If these vapors are inhaled, monitor patient closely for delayed development of pulmonary edema which may occur up to 48-72 hours post inhalation.

SECTION 5 – Fire Fighting Measures**FLAMMABLE PROPERTIES:**

AUTOIGNITION TEMPERATURE: N/A **FLASH POINT:** N/A

FLAMMABLE LIMITS – LEL: N/A **FLAMMABLE LIMITS – UEL:** N/A

EXTINGUISHING MEDIA: Water unless contraindicated by other materials involved in the fire.

FIRE-FIGHTING EQUIPMENT: Standard protective gear with self-contained breathing apparatus.

SPECIAL FIRE-FIGHTING PROCEDURES: Do not allow product to evaporate to dryness. If chlorine dioxide gas is produced, vent to atmosphere. Open or vent any large containers.

UNUSUAL FIRE OR EXPLOSIVE HAZARDS: The sodium chlorite in dried Clean Air is a strong oxidizer, which supports combustion.

SECTION 6 – Accidental Release Measures

ENVIRONMENTAL NOTIFICATION: All spills and leaks involving more than 10 gallons should be reported to the nearest regional EPA office or designated state emergency response office within 24 hours. Spills from ocean vessels or which may contaminate U.S. coastal waterways should be reported to the nearest Coast Guard office within 24 hours.

SPILL OR LEAK PROCEDURE: Small spills, involving less than 10 gallons, may be flushed to a designated and permitted sewer system with the amount of water that is about 10 times the amount of the spill. Do not discharge this product to storm drains or to any surface or groundwater source unless specifically allowed under a valid NPDES permit.

SECTION 7 – Handling and Storage

HANDLING: Use product only as directed by the label. Avoid contact with skin and eyes; avoid breathing any vapors or fumes resulting from product activation. Wash thoroughly after handling. Thoroughly rinse all protective gear and handling equipment, such as transfer pumps and lines, with water prior to reuse or storage. Keep away from children, animals, and unauthorized personnel.

PRODUCT STORAGE: Store in a cool, dark area in original container. Do not contaminate water, food, or feed by storage disposal. Do not re-use container.

SECTION 8 – Exposure Controls/Personal Protection**ENGINEERING CONTROLS:**

VENTILATION: Open air or good room ventilation is normally adequate for safe use of this product.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYE/FACE PROTECTION: Good manufacturing practice recommends use of chemical safety goggles for all applications involving chemical handling.

SKIN PROTECTION: Good manufacturing practice recommends that, at a minimum, rubber, neoprene, or other chemically impervious gloves be worn for all applications involving chemical handling.

RESPIRATORY PROTECTION: None required.

SECTION 9 – Physical and Chemical Properties

ODOR/COLOR/GRADE: Clear liquid with very faint chlorinous odor

GENERAL PHYSICAL FORM: Liquid **VOLATILE ORGANIC COMPOUNDS:** <0.1% by weight

FLASH POINT: N/A **EVAPORATION RATE:** Comparable to water

SOLUBILITY IN WATER: Complete **MELTING POINT:** Not determined

pH: 7.5 – 9.0 **SPECIFIC GRAVITY:** 1.01 g/ml (20°C)

VAPOR PRESSURE (mmHg): 23.7 (25°C) **BOILING POINT:** 213°F (100.5°C)

VAPOR DENSITY: 0.02 kg/m³

THIS INFORMATION MUST BE ON ALL MSDS'S COPIED AND DISTRIBUTED FOR THIS MATERIAL.
NO WARRANTY IS EXPRESSED/IMPLIED REGARDING THE ACCURACY OF THIS DATA OR RESULTS OBTAINED FROM USE. PROCHEM ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE TO USER. VENDEE/USER ASSUMES ALL RISKS ASSOCIATED WITH USE.

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SECTION 10 – Stability and Reactivity**CHEMICAL STABILITY:** Stable**MATERIALS AND CONDITIONS TO AVOID:** Avoid storing product under conditions in which it could evaporate to crystalline salt. Avoid accidental contact of concentrate with acids, chlorine compounds, hypochlorites (bleach), sulfur and sulfite compounds, phosphorous, organic solvents and combustible/flammable material.**HAZARDOUS REACTION AND DECOMPOSITION PRODUCTS:** Exposure to acids or chlorine compounds may produce chlorine dioxide gas.**HAZARDOUS POLYMERIZATION:** Hazardous polymerization will not occur.**SECTION 11 – Toxicological Information**

ANIMAL TOXICOLOGY: Inhalation LC50: >5.61 mg/l
Dermal LD50: >5,000 mg/kg (rabbit)
Oral LD50: >5,000 mg/kg (rat)

CARCINOGENICITY: Active ingredients are not listed by ROTECS, OSHA, IARC, NTP, or EPA. No evidence to date implicating product as a carcinogen or tumor promoter.**MUTAGENICITY:** Though product active ingredient is a chemical oxidant, no evidence to date for mutagenicity from whole animal or in vitro studies.**REPRODUCTIVE/DEVELOPMENTAL TOXICITY:** No known effects to date.**SECTION 12 – Ecological Information****ECOTOXICOLOGICAL INFORMATION:** This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional office of the EPA.**SECTION 13 – Disposal Consideration****CONTAINER DISPOSAL:** Wrap container in newspaper and discard in trash. Triple rinse then offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill, or by incineration; or if allowed by state and local authorities, by burning. If burned, stay out of smoke.**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.**DISPOSAL PROCEDURE:** Small quantities, less than 10 gallons, may be flushed to an authorized and permitted sewer with copious amounts of water.**SECTION 14 – Transport Information**

Not DOT Regulated

SECTION 15 – Regulatory Information**US FEDERAL REGULATIONS:****TSCA:** All product ingredients are in inventory**SARA TITLE 312/313:** Neither the product nor its constituent ingredients are listed under SARA reporting requirements. Chlorine dioxide produced from activation is listed under SARA 313.**RCRA:** Not considered a hazardous waste either categorically or by chemical listing.**FIFRA:** Clean Air is an EPA registered antimicrobial (EPA No. 9804-3-11861)**FEDERAL OSHA REGULATIONS:** Neither product nor constituent ingredients is classified as an acute or chronic health hazard by OSHA. Chlorine dioxide produced by activation is regulated with an air exposure limit of 0.1 ppm TL V and 0.3 ppm STEL.**STATE LAWS:****CALIFORNIA:** Not regulated under the provisions of Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)**NEW JERSEY:** Sodium Chlorite is listed under New Jersey's Chemical Inventory Notification Requirement (NJAC 7:1Z). Estimated release notification, however, is not required.**NOTE:** Regulatory requirements are subject to change and may vary from one location to another. It is the user's responsibility to ensure compliance with all applicable federal, state and local regulations pertaining to the purchase, transport, storage, use and disposal of this product.**CHEMICAL INVENTORIES:** This material contains one or more substances listed on the TSCA Inventory. Commercial use of this material is regulated by the EPA.**SECTION 16 – Other Information**

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard rating primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

NOTICE: Manufacturer believes the information contained herein is accurate; however we make no guarantees with respect to such accuracy and assume no liability in connection with the use of the information contained herein by any party. Any party using this product should review all such laws, rules or regulations prior to use.**Product may bleach clothing and fabric materials, such as draperies and carpets.****NO WARRANTY IS MADE, EXPRESS OR IMPLIED FOR A PARTICULAR PURPOSE OR OTHERWISE.**

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