




SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2344	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	CLEAN AIR	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Bacteria and Odor Control For HVAC Systems	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Not classified as hazardous under 29 CFR 1910.1200 (d) and is not subject to GHS/SDS hazard statement requirements.	SIGNAL WORD: N/A	SYMBOL:	
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HAZARD STATEMENT:

Not classified as hazardous under 29 CFR 1910.1200 (d) and is not subject to GHS/SDS hazard statement requirements.

3. Composition / Information on Ingredients

CHEMICAL NAME	EC number:	CAS	Concentration % by Weight
Sodium chlorite (formula NaClO ₂)	231-836-6	7758-19-2	0.17%
Water	231-791-2	7732-18-5	>99.99%

4. First Aid Measures

EMERGENCY OVERVIEW

WARNING:

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.

EYES: 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.

SKIN: 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.

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 a poison control center or doctor for further treatment advice. Chlorine dioxide vapors are emitted when this product contacts acids or chlorine. If these vapors are inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. Monitor patient closely for delayed development of pulmonary edema, which may occur up to 48-72 hours post inhalation.

INGESTION:

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.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Water is the preferred extinguishing media when it is compatible with the burning substance. If water is not compatible, use dry powder extinguisher.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Burning will release hydrogen chloride gas (HCl) and oxides of sodium (NaOx).

SPECIFIC FIRE-FIGHTING METHODS:

Substance does not burn but supports the combustion of flammable substances through the liberation of oxygen.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firefighters should wear self-contained breathing apparatus (SCBA) if necessary.

6. Accidental Release Measures

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS: Spills 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.

7. Handling and Storage

SAFE 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.

SAFE STORAGE:

Store in a cool, dark area in original container. Do not contaminate water, food, or feed by storage or disposal. Do not reuse container.

8. Exposure Controls / Personal Protection

No Occupational Safety and Health Administration (OSHA) permissible exposure limit (PEL) or American Conference of Governmental Industrial Hygienists (ACGIH) threshold limit values (TLV) have been established for this product.

ENGINEERING CONTROLS:

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

PERSONAL PROTECTIVE EQUIPMENT:



Good manufacturing practice recommends use of chemical safety goggles, and at a minimum, rubber, neoprene, or other chemically impervious gloves be worn for all applications involving chemical handling. Respiratory protection none is required.

9. Physical & Chemical Properties

APPEARANCE:	Clear to pale yellow liquid.	FLAMMABILITY(gas/solid):	Not flammable.
ODOR:	Slight odor of chlorine.	FLASH POINT:	Not applicable.
ODOR THRESHOLD:	Not determined.	EVAPORATION RATE:	Comparable to water.
pH:	8.0-8.5	VAPOR PRESSURE:	23.7 mm Hg (25°C)
MELTING/FREEZING POINT:	Not determined.	VAPOR DENSITY:	0.02 kg/m ³
INITIAL BOILING POINT/RANGE:	213°F (100.5°C)	RELATIVE DENSITY:	1.01 g/ml (20°C)
PARTITION COEFFICIENT (n-octanol/water):	Not applicable (not a mixture).	SOLUBILITY (water):	Miscible.
VISCOSITY:	0.6409 mm ² /sec	AUTO-IGNITION TEMP:	Not applicable.
UPPER/LOWER FLAMMABILITY/ EXPLOSIVE LIMITS:	Not flammable.	DECOMPOSITION TEMP:	Not determined.

10. Stability & Reactivity Information

REACTIVITY:

Not reactive under normal temperatures and pressures.

CHEMICAL STABILITY:

Stable at normal temperatures and pressures.

POSSIBILITY OF HAZARDOUS REACTIONS:

Contact with acids or chlorine can result in the evolution of chlorine dioxide gas (ClO₂).

INCOMPATIBLE MATERIALS:

Acids, reducing agents, combustible material, oxidizing agents, hypochlorite, organic solvents and compounds, Garbage, dirt, organic materials, household products, chemicals, soap products, paint products, vinegar, beverages, oils, pine oil, dirty rags, sulfur-containing rubber, or any other foreign matter.

CONDITIONS TO AVOID:

Avoid heat, flames, sparks, and other sources of ignition. Avoid evaporation to dryness. Dried material can ignite upon contact with combustibles. Avoid contamination with foreign materials. Avoid exposure to sunlight or ultraviolet light.

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.

12. Ecological Information

Toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, rivers, or streams. Do not discharge effluent containing this product to sewer systems without first notifying the sewage treatment plant. Does not bio-accumulate and is biodegradable. Does not migrate in soil.

13. Disposal Consideration

PRODUCT DISPOSAL:

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL:

Do not reuse or refill this container. Offer for recycling if available. Offer for reconditioning if appropriate. Triple rinse container, or equivalent, promptly after emptying.

TRIPLE RINSE AS FOLLOWS:

Empty the remaining contents into applications equipment or a mix tank and drain for ten seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Pour rinsate into applications equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

14. Transportation Information

Not regulated in transport.

ENVIRONMENTAL HAZARDS:

Toxic to fish and aquatic organisms. Not a marine pollutant. In case of spill, flush with copious amounts of water. Do not allow to dry to crystalline form.

15. Regulatory Information

U.S. REGULATIONS

OSHA REGULATORY STATUS: This material is not considered hazardous by the OSHA Hazard Communication standard (29CFR 1910.1200).

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.

SARA EHS Chemical (40 CFR 355.30): Not regulated.

EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10): Not regulated.

EPCRA SECTION 313 (40 CFR 372.65): Not regulated.

OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119): Not regulated.

NATIONAL INVENTORY STATUS

U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA): All components are listed or exempt.

TSCA 12(b): This product is not subject to export notification.

CANADIAN CHEMICAL INVENTORY:

All components of this product are listed on either the DSL or the NDSL.

STATE REGULATIONS

California, Proposition 65:

Cancer WARNING: Not listed.

CRT List – Male reproductive toxin: Not listed.

CRT List – Female reproductive toxin: Not listed.

Massachusetts Right to Know Hazardous Substance List: Listed.

New Jersey Right to Know Hazardous Substance List: Listed 1689.

New Jersey Special Health Hazards Substance List: Listed 1689.

New Jersey Environmental Hazardous Substance List: Not listed.

Pennsylvania Right to Know Hazardous Substance List: Listed.

Pennsylvania Right to Know Special Hazardous Substances: Not listed.

Pennsylvania Right to Know Environmental Hazard List: Not listed.

Rhode Island Right to Know Hazardous Substance List: Not listed.

WHMIS - Classifications of Substances:

Not classified.

FIFRA Regulations:

Registered pesticide under 40 CFR 152.10, Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), EPA Reg. No. 9804-3

FIFRA Labeling Requirements:

This chemical is a pesticide product registered by the United States Environmental Protection Agency and it subject to certain labeling requirement under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

FIRE Signal Word – CAUTION

Corrosive.

Harmful if swallowed.

Avoid Breathing spray mist.

Causes moderate eye irritation.

Remove contaminated clothing and wash clothing before reuse.

Wash thoroughly with soap and water after handling.

Handlers applying chlorine dioxide must wear gloves.

This pesticide is toxic to fish and aquatic invertebrates.

16. Other Information

N/A = Not Applicable; N/D = Not Determined

NFPA	Health Hazards: 1	Flammability: 0	Instability: 1	Special Hazards: None
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DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.