



MATERIAL SAFETY DATA SHEET

CLO2 Remedies, LLC.

dba/Reset Pure CLO2
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This MSDS complies with 29 CFR 1910.1200 (The Hazard Communication Standard)

DATE REVISED: 8/18/18

SECTION 1: PRODUCT INFORMATION

Product Name:

Reset Pink Tablet, Reset Yellow Tablet, Reset Blue Tablet, Reset Green Tablet, Reset Red Tablet, Reset Orange PaK, Reset Purple PaK, Reset Black PaK.

Product Type:

Deodorizing delivery system for the generation of chlorine dioxide. Removes and eliminates organic & chemical based odors in confined spaces where moisture is present.

SECTION 2: PHYSICAL DATA

INGREDIENT	CAS #	CONCENTRATION RANGE (% by weight)	Exposure Limits		
			NIOSH	OSHA	ACGIH
Sodium chlorite	7758-19-2	15-40%	None Listed	None Listed	None Listed
Activator	N/A	50-85%	None Listed	None Listed	None Listed
Inert	N/A	≤ 2%	None Listed	15 mg/m3^*	10 mg/m3^*

^Time-Weighted Average *Particulates Not Otherwise Regulated

MELTING POINT: 338oF

SOLUBILITY IN WATER: Complete

VAPOR PRESSURE: Not determined %

VOLATILE: Not determined

ODOR: Chlorine odor, slight

APPEARANCE: reacts with water to produce yellow liquid

SECTION 3: HAZARD IDENTIFICATION

Intact product is not expected to produce any measurable exposure to ingredients. If product is damaged, avoid contact with dry ingredients. Dry ingredients may cause skin and eye burns. If product contents become wet, product may produce chlorine dioxide gas. See section 11 for hazards of chlorine dioxide gas.

The product is designed to release small amounts of chlorine dioxide gas into water when the **Reset Tablets & Paks** are placed in water. The product design limits both the amount of gas generated and the rate of release into solution. The product produces chlorine dioxide gas when the contents are adequately wetted.

Reset ClO₂ Tablets need 10 minutes to full activate.

The quantity of active ingredient that produces chlorine dioxide gas ranges from roughly 1 to 500 grams, and chlorine dioxide gas is not expected to be released in amounts or at a rate where significant exposures could occur in normal handling and use. If not used according to directions, some chlorine dioxide gas could be released into small, enclosed spaces in sufficient quantities to be detectable. If a chlorine-like odor is detected in such a space, leave the space and ventilate it.

POTENTIAL HEALTH EFFECTS FROM EXPOSURE TO CHLORINE DIOXIDE GAS:

INHALATION: Chlorine dioxide gas is a strong respiratory irritant. High exposure may cause bronchospasm and pulmonary edema, which may be delayed in onset. May also cause severe headache. All symptoms may be delayed and long lasting. Prolonged exposure may cause bronchitis.

SKIN CONTACT: Skin irritant. Gas phase may be absorbed, causing tissue and blood cell damage.

EYE CONTACT: Eye irritant. Exposure may cause visual disturbance such as seeing haloes around lights.

INGESTION: Aqueous solutions of chlorine dioxide gas can be irritating and in high concentrations cause chemical burns. Not anticipated from this product.

ADDITIONAL DATA: May have increased effects with exposure to chlorine, other chlorine oxides and chlorine-fluorine compounds.

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 the eye. Seek medical attention immediately.

INGESTION: Call a poison control center or doctor immediately for treatment advice if person has ingested quantities of (M) or (H) Rest Pure ClO₂. Have person drink large quantities 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.

CONTACT WITH LIQUID PRODUCT (ACTIVATED PRODUCT)

SKIN: Remove contaminated clothing. Rinse skin immediately. If irritation persists, obtain medical attention.

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 the eye. If irritation persists, obtain medical attention.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person drink large quantities 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.

NOTE: Have the product container or label with you when calling a poison control center or doctor or going for treatment.

SECTION 4: FIRST AID MEASURES

CONTACT WITH DRY PRODUCT

SKIN: Brush off loose product. Rinse skin immediately with plenty of water, then wash area with soap and water. Call a poison control center or doctor for treatment advice.

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 the eye. Seek medical attention immediately.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person drink large quantities 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.

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NOTE: Have the product container or label with you when calling a poison control center or doctor or going for treatment.

SECTION 5: FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARD: Sodium chlorite in the unactivated product is a strong oxidizer, and can support combustion in the absence of air. Chlorine dioxide, which may evolve from exposure of the unactivated product to water, is explosive in the gas phase at concentrations greater than 10% by volume. Do not allow chlorine dioxide gas to accumulate in confined spaces.

EXTINGUISHING MEDIA: Fire-exposed containers should be watered and cooled with water fog. Decomposition can release oxygen that supports combustion and reduces effectiveness of suffocation- type extinguishing agents.

FIREFIGHTING: Wear full protective clothing and self-contained breathing apparatus with full face piece (pressure-demand, NIOSH-approved). Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.

FLASH POINT: 185° C (sodium chlorite)

HAZARDOUS COMBUSTION PRODUCTS: Decomposition can release oxygen that supports combustion and reduces effectiveness of suffocation-type extinguishing agents. Thermal decomposition products from incomplete combustion (pyrolysis) include carbon monoxide, carbon dioxide, and inorganic chlorine compounds.

SECTION 6: ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL SPILL: Clean up all spills immediately, observing all protection and safety precautions. Do not allow product material to dry to a crystalline salt, which could occur if unactivated pouch is damaged or compromised. Small spills of either dry or activated product may be flushed with large quantities of water to a designated and permitted sewer system in compliance with all federal, state, and local regulations. Larger spills should be contained and neutralized by adding sufficient water to produce a dilute solution or disposed of as chemical waste in accordance with all applicable regulations. The spill scene should be flushed thoroughly with water after cleanup. Refer to Section III and Section VIII for additional precautions.

SECTION 7: HANDLING AND STORAGE

HANDLING: Use product as directed by label. Avoid breathing mist or vapors generated by activated product. Use only with adequate ventilation. Avoid (H) & (M) Resol solution contact with eyes, skin or clothing. Wash thoroughly after handling. Thoroughly rinse any protective gear and handling equipment used prior to storage and reuse.

STORAGE: Observe all applicable regulations when storing this substance. Keep unactivated product in a cool, dry, ventilated area away from direct sunlight. Do not store with acids, chlorine and chlorine compounds, hypochlorites (bleach), organic solvents, sulfur and sulfite compounds, phosphorus, and combustible/flammable materials.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: General exhaust ventilation is sufficient for safe use of this product. Avoid breathing any vapors, mists or fumes generated by the activated product. Local exhaust ventilation may be appropriate in applications, in confined spaces or where large quantities are used.

EYE PROTECTION: If handling dry ingredients in product, use appropriate eye protection. None normally required when handling intact product.

EMERGENCY WASH FACILITIES: None normally required when handling intact product. Safety shower and chemical eyewash facilities may be necessary if handling large quantities of dry ingredients.

GLOVES: None normally required when handling intact product. If handling dry ingredients in product, use appropriate hand protection. Gloves made of rubber, neoprene or other chemically impervious gloves may be suitable. Consult glove manufacturer.

RESPIRATOR: None normally required when handling intact product. Where overexposure to chlorine dioxide may occur, use appropriate respiratory protection and follow OSHA requirements at 29 CFR 1910.134 and 29 CFR 1910.1000. A NIOSH-approved air-purifying respirator or a NIOSH approved canister/cartridge respirator rated for chlorine/acid gas or specified for chlorine dioxide may be appropriate.

FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS: For firefighting, see section 5

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

DESCRIPTION: Plastic pouches containing dry formulary mix of ingredients. No characteristic odor.

MOLECULAR WEIGHT: Not applicable.

MOLECULAR FORMULA: Not applicable.

BOILING POINT: Not applicable.

MELTING POINT: Not applicable.

VAPOR PRESSURE: Not applicable.

VAPOR DENSITY: Not applicable.

SPECIFIC GRAVITY: Not applicable.

WATER SOLUBILITY: Pouch insoluble. Non-inert ingredients soluble.

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable under normal storage conditions. Ingredients are oxidizers and may decompose if heated above 160 °C, opened, or wetted.

CONDITIONS TO AVOID: Avoid storing product where it might become wet, or where the spilled contents of a damaged, unactivated pouch could dry to a crystalline salt or produce chlorine dioxide gas.

INCOMPATIBILITIES: Avoid accidental contact of dry ingredients or activated product with acids, chlorine compounds, hypochlorites (bleach), sulfur and sulfite compounds, phosphorus, organic solvents, and combustible/flammable materials.

HAZARDOUS DECOMPOSITION: Exposure of dry ingredients or activated product to acids or chlorine compounds can produce uncontrolled release of chlorine dioxide gas.

SECTION 11: TOXICOLOGY INFORMATION

DRY PRODUCT

CARCINOGEN STATUS: Not Listed.

TARGET ORGANS: Skin, eyes.

ADDITIONAL DATA: None.

HEALTH EFFECTS OF UNACTIVATED PRODUCT: None anticipated under normal conditions of use. Contact with dry ingredients may cause burns.

INHALATION: None anticipated under normal conditions of use.

SKIN CONTACT: None anticipated under normal conditions of use.

EYE CONTACT: None anticipated under normal conditions of use; however, eye contact with dry ingredients may cause irreversible eye damage.

INGESTION: None anticipated under normal conditions of use.

SECTION 12: ECOLOGICAL INFORMATION

ACUTE AQUATIC TOXICITY: Not applicable. **DEGRADABILITY:** Decomposes in water. **BIOCONCENTRATION FACTOR (BCF):** Not applicable. **OCTANOL/WATER PARTITION COEFFICIENT:** Not applicable.

SECTION 13: DISPOSAL INFORMATION

Unactivated product should be disposed in accordance with all federal, state and local regulations. Used/activated product sachets are considered inert; consult with appropriate agencies to determine appropriate disposal methods.

SECTION 14: TRANSPORTATION INFORMATION

D.O.T. Classification: 5.1, **Oxidizer UN Number:** 1496

This applicable packaging is 49 CFR 173.4 (small quantity-maximum amount of sodium chlorite per individual receptacle is 30grams).

Oxidizer placard not required. Outside package must be marked as follows:

“This Package conforms to 49CFR 173.

NFPA Ratings:

Health hazard: 1

Reactivity: 1

Flammability hazard: 1

Other hazard: oxidizer

SECTION 15: REGULATORY INFORMATION**US FEDERAL REGULATIONS:**

Clean Air Act: Not applicable.

CERCLA SECTION 103 (40 C.F.R. § 302.4): Not applicable.

SARA SECTION 302 (40 C.F.R. § 355.30): Not applicable.

SARA SECTION 304 (40 C.F.R. § 355.40): Not applicable.

SARA (EPCRA) SECTION 313 (40 C.F.R. § 372.65): Chlorine dioxide produced from activated product is listed under SARA 313, with a 25,000-pound threshold for manufactured product.

OSHA PROCESS SAFETY (29 C.F.R. § 1910.119): Not regulated.

SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40 C.F.R. § 370.21): 10,000 lb threshold.

ACUTE HAZARD: Irritant.

CHRONIC HAZARD: None known.

FIRE HAZARD: Oxidizer.

REACTIVITY HAZARD: Oxidizer.

SUDDEN RELEASE HAZARD: Not applicable.

STATE REPORTING REQUIREMENTS:

California Proposition 65: Not regulated. New Jersey: See Section II.

SECTION 16:**DISCLAIMER OF WARRANTY**

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user, and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT.

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