



SAFETY DATA SHEET

SECTION 1 • COMPANY AND CHEMICAL IDENTIFICATION

Selective Micro Technologies, LLC
6200 Avery Rd., Suite A
Dublin, OH 43016
(855) 256-8299 (8:30 AM – 4:30 PM EST)

EMERGENCY SOURCE INFORMATION
24-Hour Emergency Chemtrec: 800-424-9300

SUBSTANCE: Aqueous chlorine dioxide
PRODUCT: Chlorine dioxide
PRODUCT/TRADE NAMES/SYNONYMS: Various

Other trade names: chlorine dioxide, ClO₂, pure chlorine dioxide, pure ClO₂

RESTRICTIONS: For industrial and commercial use

CREATED BY: Selective Micro Technologies

CREATION DATE: 8/22/2018 REVISION DATE: NA

SECTION 2 • HAZARD IDENTIFICATION

PRODUCT: Chlorine dioxide
SIGNAL WORD: CAUTION

Potential respiratory tract irritant. Potential eye irritant.

Precautionary statements: Wash exposed areas after handling. Do not use in close-confined spaces.

SECTION 3 • COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT

COMPONENT	CASRN	RANGE
Chlorine Dioxide	10049-04-4	0.0005% - 0.001%

SECTION 4 • FIRST AID MEASURES

CONTACT WITH LIQUID PRODUCT

SKIN: Irritation not anticipated at use concentrations. If symptoms occur, rinse affected areas with water.

EYES: Hold eye open and rinse slowly and gently. If possible, remove contact lenses. If irritation persists, obtain medical attention.

INHALATION: Not applicable at use concentrations. If symptoms occur, remove to fresh air. Seek medical attention if symptoms persist.

INGESTION: Rinse mouth with water. If symptoms occur, seek medical attention.

NOTE: Have the product container or label with you when seeking medical aid.

SECTION 5 • FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARD: Not applicable at use concentrations.

EXTINGUISHING MEDIA: Not applicable at use concentrations.

FIREFIGHTING: Not applicable at use concentrations.

HAZARDOUS COMBUSTION PRODUCTS: Not applicable at use concentrations.

SECTION 6 • ACCIDENTAL RELEASE MEASURES

PRODUCT:

If product is spilled, or otherwise introduced into the environment at use concentrations:

- Soak up spillage and dispose of down drain and in accordance with local ordinance.

SECTION 7 • HANDLING AND STORAGE

HANDLING: Use product as directed by label. Wash hands after handling. Do not use in close-confined spaces.

STORAGE: Not applicable. Product not stored at use concentrations.

SECTION 8 • EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: General exhaust ventilation is sufficient for safe use of this product.

EYE PROTECTION: Not applicable at use concentrations.

EMERGENCY WASH FACILITIES: None normally required when handling product at use concentrations.

GLOVES: Not applicable at use concentrations.

RESPIRATOR: Not applicable at use concentrations.

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

EXPOSURE LIMITS:

PRODUCT	CASRN	OSHA	ACGIH	NIOSH
Chlorine dioxide (airborne)	10049-04-4	0.1 ppm/8hrs	0.1 ppm/10hrs 0.3 ppm STEL	0.1 ppm/10hrs 0.3 ppm STEL

SECTION 9 • PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Pale brown liquid
UPPER/LOWER FLAMMABILITY LIMITS: NA
ODOR: NA at use concentrations
VAPOR PRESSURE: NA
ODOR THRESHOLD: NA
VAPOR DENSITY: NA
pH: >6.0
RELATIVE DENSITY: NA
MELTING/FREEZING POINT: 32 degrees F.

SOLUBILITY: COMPLETE
INITIAL BOILING POINT & BOILING RANGE: NA
FLASH POINT: NA
EVAPORATION RATE: NA
FLAMMABILITY: NA
PARTITION COEFFICIENT: NA
AUTO-IGNITION TEMPERATURE: NA
DECOMPOSITION TEMPERATURE: NA
VISCOSITY: NA

SECTION 10 • STABILITY AND REACTIVITY

STABILITY: Product is stable under normal storage conditions.

CONDITIONS TO AVOID: Avoid the accumulation of high concentrations of gasses emitted from product.

INCOMPATIBILITIES: Avoid accidental contact with other chemicals such as strong oxidizing agents, excessive heat, sunlight.

HAZARDOUS DECOMPOSITION: Not applicable at use concentrations.

SECTION 11 • TOXICOLOGY INFORMATION

CARCINOGEN STATUS: Not Listed.

TARGET ORGANS: Not applicable at use concentrations.

ADDITIONAL DATA: None.

DERMAL SENSITIZATION: Not applicable at use concentrations.

ACUTE INHALATION: Not applicable at use concentrations.

CARCINOGEN STATUS: OSHA: Not Listed.

NTP: Not Listed.

IARC: Not Listed.

HEALTH EFFECTS FROM EXPOSURE TO ACTIVATED PRODUCT:

None anticipated at use concentrations.

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

Used/activated product sachets are considered inert; consult with appropriate agencies to determine appropriate disposal methods.

SECTION 14 • TRANSPORTATION INFORMATION

Transportation of activated chlorine dioxide not necessary, as this product is intended for use on site.

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

ACUTE HAZARD: Not applicable at use concentrations.
 CHRONIC HAZARD: Not applicable at use concentrations.
 FIRE HAZARD: Not applicable at use concentrations.

REACTIVITY HAZARD: Oxidizer.
 SUDDEN RELEASE HAZARD: Not applicable.

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

SECTION 16 • OTHER

DISCLAIMER OF WARRANTY

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