

# SAFETYDATA SHEET

## SECTION 1 • COMPANY AND CHEMICAL IDENTIFICATION

Selective Micro Technologies, LLC 6200 Avery Road, Suite A Dublin, OH 43016 (855) 256-8299 EMERGENCY SOURCE INFORMATION 24-Hour Emergency Chemtrec: 800-424-9300

SUBSTANCE: Inorganic Oxidizing Agent DRY PRODUCT: Sodium Chlorite, proprietary ingredients ACTIVATED PRODUCT: Chlorine dioxide PRODUCT/TRADE NAMES/SYNONYMS: SMT Extended Release 10K, 4K, 2.5K, 1K

CREATED BY: SELECTIVE MICRO TECHNOLOGIES, LLC CREATION DATE: 8/8/2018 REVISION DATE: 12/01/2020

#### SECTION 2 • HAZARDIDENTIFICATION

DRY PRODUCT: Sodium chlorite SIGNAL WORD: DANGER CATEGORY: Oxidizing solids (category 2)



PRECAUTIONARY STATEMENTS: Avoid contact with skin and eyes. Wear suitable protective clothing, gloves, and eye/face protection.

ACTIVATED PRODUCT: Chlorine dioxide

SIGNAL WORD: CAUTION

CATEGORY: NA

INHALATION: Not anticipated under normal conditions of use.

SKIN CONTACT: Not anticipated under normal conditions of use.

EYE CONTACT: Not anticipated under normal conditions of use.

INGESTION: Not anticipated under normal conditions of use.

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

## SECTION 3 • COMPOSITION/INFORMATION ON INGREDIENTS

DRY PRODUCT		
COMPONENT	CASRN	RANGE
Activator*	N/A	55-85%
Sodium Chlorite	7758-19-2	15-40%
Inert*	N/A	≤ 2%
ACTIVATED PRODUCT		
COMPONENT	CASRN	
Chlorine Dioxide	10049-04-4	

\*Proprietary ingredients

## 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.

INHALATION: Remove individual from exposure to chemical. Seek fresh air. If individual is not breathing, administer CPR. If breathing is labored, seek medical attention.

#### 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.

**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

#### DRY PRODUCT:

If contents of pouch are exposed, spilled, or otherwise introduced into the environment: • Wear protective rubber gloves (see manufacturer details for tolerances)

- Wear protective goggles or other eye protection
- Wear an approved NIOSH mask to prevent inhaling fumes/dust
- Place contents on pouch in a plastic container
- Fill container with water to allow degradation/neutralization

#### 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 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. Do not store in areas where sparking may occur.

After envelope is spent, product should be disposed of.

## 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 inactivated product.

EYE PROTECTION: If handling exposed contents of pouch, goggles or face shield should be worn.

**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 exposed 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 mayoccur, 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.

#### **EXPOSURE LIMITS:**

<u>COMPONENT</u>	CASRN	<u>OSHA</u>	ACGIH	<u>NIOSH</u>
Activator	N/A	None Listed	None Listed	None Listed
Sodium Chlorite	7758-19-2	None Listed	None Listed	None Listed
Inert	N/A	15 mg/m3^*	10 mg/m3^*	None Listed

^Time Weighted Average

+Particulates Not Otherwise Regulated

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



## SECTION 9 • PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Dry Product-white powdery substance. Activated Product-light green to yellow liquid. UPPER/LOWER FLAMMABILITY LIMITS: NA ODOR: DryProduct-NA Activated Product-faint chlorinesmell VAPOR PRESSURE: NA ODOR THRESHOLD: 0.1 PPM VAPOR DENSITY: NA pH: NA

MELTING/FREEZING POINT: NA SOLUBILITY: COMPLETE INITIAL BOILING POINT & BOILING RANGE: NA FLASHPOINT: 185°C EVAPORATION RATE: NA FLAMMABILITY: NA PARTITION COEFFICIENT: NA AUTO-IGNITION TEMPERATURE: NA DECOMPOSITION TEMPERATURE: 160°C VISCOSITY: NA

## RELATIVE DENSITY: NA

## SECTION 10 • STABILITY AND REACTIVITY

**STABILITY:** Product isstable 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. Do not store where dry material may come into contact with sparking.

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

HAZARDOUS DECOMPOSITION: Exposure of dry ingredients to

acids or chlorine compounds can produce uncontrolled release of chlorine dioxide gas.

#### SECTION 11 • TOXICOLOGY INFORMATION

#### 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: Notanticipated under normal conditions of use. SKIN CONTACT: Not anticipated under normal conditions of use. EYE CONTACT: Not anticipated under normal conditions of use; however, eye contact with dry ingredients may cause irreversible eye damage. INGESTION: Not anticipated under normal conditions of use.

**DERMAL SENSITIZATION:** A dermal sensitization test [in accordance with EPA Health Effects Test Guidelines, OPPTS 870.2600 (2003)] was conducted with guinea pigs to determine if the activated product would produce sensitization after repeated topical applications. Based on the results of the study, the activated solution is not considered to be a contact sensitizer.

CARCINOGEN STATUS: OSHA: Not Listed. NTP: Not Listed. IARC: Not Listed.

TARGET ORGANS: Skin, eyes, respiratory tract, mucous membranes.

#### ADDITIONAL DATA: None.

HEALTH EFFECTS FROM EXPOSURE TO ACTIVATED PRODUCT: Notanticipated under normal conditions of use.

POTENTIAL HEALTH EFFECTS FROM EXPOSURE TO CHLORINE DIOXIDE GAS:

INHALATION: Not anticipated under normal conditions of use.

SKIN CONTACT: Not anticipated under normal conditions of use.

EYE CONTACT: Not anticipated under normal conditions of use.

INGESTION: Not anticipated under normal conditions of use.

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

#### SECTION 12 • ECOLOGICAL INFORMATION

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

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#### 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, packing group II Oxidizer. D.O.T. Identification Number: UN 1493 Conforms to 49 CFR 173.4 for road and rail transfer. IATA: Dangerous goods in excepted quantities

## **SECTION 15 • REGULATORY INFORMATION**

#### US FEDERAL REGULATIONS: Clean Air Act: Not applicable.

CERCLASECTION 103 (40 C.F.R. § 302.4): Not applicable. SARASECTION 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. STATE REPORTING REQUIREMENTS: FIRE HAZARD: Oxidizer. **REACTIVITY HAZARD: Oxidizer.** California Proposition 65: Not regulated. SUDDEN RELEASE HAZARD: Not applicable. New Jersey: See Section II.

#### SECTION 16 • OTHER

#### **DISCLAIMER OF WARRANTY**

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