

安定化二酸化塩素



ANTHIUM DIOXIDE

解説

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※1 米国職業安全衛生管理局

※2 米国資源保全再生法

	有効性	微生物範囲	濃度	腐食性	毒性	生分解性	適用例	その他
二酸化塩素	高	広いスペクトラムを示し、ジアルジア属、クリプトスポリジウムのような孢子生成微生物を含む全てのビールス、カビ、真菌類、藻類に有効	0.1~100ppm	使用濃度で無視できる	使用濃度で無視できる、高濃度で長時間曝すると皮膚や呼吸器刺激を生じる	反応性薬品、及び典型的な副生物共に分解性が高い	飲料水や排水用消毒、脱臭、及び化学酸化	クロロフォルム、クロロフェノール類、トリクロロメタンのような塩素化副生物を生成しない
次亜塩素酸ソーダ 次亜塩素酸カルシウム	中	殆どのビールス、カビ、真菌類、及び孢子生成微生物に比較的無効	1000ppm~(%)の範囲)	鉄やアルミに腐食性あり、アルカリ配合製品はステンレスに青味を生ずる可能性あり	アルカリ配合製品は組織を強く腐食する、またクロロホルムなどのような塩素化副生物を生ずる可能性あり	本漂白剤そのものには中程度だが、塩素化副生物に対しては低い	脱臭剤、及び排水処理、飲料水消毒用に制限あり	有効期間や安定性が良くない、臭いと漂白の影響が問題となる可能性あり
過酸化水素	低	高濃度で使用しなければ、多くの微生物に対して比較的無効	普通%の範囲	アルミニウム、鉄、及び亜鉛に高い	使用濃度で過酸化水素は皮膚と組織を激しく刺激する可能性がある	高い	化学酸化剤として広く使用される、特に硫化水素制御や排水処理で使用される	高濃度、または金属との汚染で安定性に問題あり
乾燥塩素化合物	中	ある種のカビや孢子生成微生物に対して比較的無効	普通%の範囲	高アルカリ製品は鉄やアルミに腐食性あり、またステンレスによっては青味を付ける可能性あり	多くは処方慢性毒性は十分評価されていないが、殆どは皮膚や組織を刺激する事が知られている	特に塩素化副生物が生成する場合は、低い~中程度	緊急用水消毒剤として限定使用、主として表面消毒用途として使用される	高アルカリ製品には、pH調整しないと下水処理で問題が起こる可能性がある
オゾン	高	広いスペクトラム、孢子生成型を含むあらゆる型の微生物に有効	0.1~10ppm	高濃度で鉄やある種のステンレスを僅かに腐食する可能性あり	使用濃度で恐らく無視できる	高い	主として飲料水や排水の除菌に使用される、またその他の化学酸化用途にも使用される	強い化学酸化剤、除菌剤で反応性が強く、目的物以外にも影響を及ぼす
フェノール	高	ジアルジア属の様なある種の孢子生成微生物を除く殆どの微生物に有効	1000ppm~(%)の範囲)	高濃度では酸性になりやすく、鉄やある種のステンレスに腐食を起こす ※OSHAで厳しく規制されている	極めて有毒、長期間暴露されると腎臓、肝臓、神経系に損傷を起こす事になる	比較的低い	その使用は表面消毒剤、及び消毒剤の潤滑剤処方に限定される	フェノールは焼却処分が必要なクラスI RCRA22で、危険な廃棄物とされている

■ A型インフルエンザに有効とされるEPA認可

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION Causes moderate eye irritation. Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS
This product is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, rivers or other waters unless in accordance with the requirements of a National Pollutant Discharge Discharge 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 local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

CHEMICAL AND PHYSICAL HAZARDS
Chlorine dioxide is a strong oxidizing agent. Contamination with other materials such as acids, chlorine, organic chemicals, etc. may cause a chemical reaction resulting in evolution of chlorine dioxide and heat. Explosion and/or fire could result. Chlorine dioxide is a poisonous explosive gas. Keep all chemical and foreign materials away from this solution.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
STORAGE: Do not store with easily oxidizable materials, acids, reducers, and combustible material. Avoid heat or freezing conditions. Store upright and do not stack drums over full on pallets or partially filled drums. Use of a drum pump is suggested. Keep drums tightly closed when not withdrawing liquid. In case of spill, dilute with large quantities of water. Do not allow liquid to dry because this could present a fire hazard. Store only in the original container and take care to prevent cross-contamination with other pesticides, herbicides, food and feed.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
NON-REFILLABLE CONTAINER: Recycle where available. Do not reuse or refill this container.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or in accordance with, or as allowed by state and local authorities, by burning, if burned, stay out of smoke.

EMERGENCY HELPLINE: In case of contamination or decomposition, do not wear contact lenses in eyes, well-ventilated area. Flush with large volumes of water. Call appropriate chemical safety help line.

NOTICE: Seller expressly warrants that the product conforms to its chemical description. There are no warranties associated with the sale of the product other than express or implied, including but not limited to the warranties of fitness for a particular use.



Active Ingredients:
Chlorine Dioxide..... 5.0%
Other Ingredients..... 95.0%
100%

KEEP OUT OF THE REACH OF CHILDREN
CAUTION/AVOID
SEE SIDE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS

FIRST AID
If on skin or clothing: Take off contaminated clothing. Flush skin with water for 15-20 minutes. Call a poison control center or doctor for further advice. If in eyes: Hold eye open and rinse slowly and gently with water. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor immediately for treatment advice. If inhaled: Call a poison control center or doctor immediately for treatment advice. If person is not breathing, call 911 or the local poison control center or doctor. Do not give anything by mouth to an unconscious person.

If swallowed: Move person to fresh air. If person is not breathing call 911 or your local poison control center or doctor for further treatment advice.

For all other emergency information in this product call ChemService at 1-800-441-2333, 24 hours a day, 7 days a week. In Canada, Puerto Rico, Virgin Islands: 1-703-427-3887. (All Other Emergency Numbers: 1-800-441-2333)

Notice: You may also contact the National Poison Control Center at 1-800-527-0887. Have the product container or label with you when calling a poison control center or doctor for treatment advice.

Note to Pesticide Applicators: Probable mutual damage may be attributable to the use of this product.

E.P.A. REG. NO. 9150-2 E.P.A. EST. NO. 99183-MI-01

Anthium Dioxide® is an effective disinfectant against the following bacteria at a 500 ppm activated use solution of Anthium Dioxide® (50 ppm free chlorine dioxide) in 10 minutes in the presence of 5% organic matter:
- Pseudomonas aeruginosa (Pseudomonas)
- Staphylococcus aureus (Staph)
- Salmonella enterica (Salmonella)

Anthium Dioxide® is a tuberculocidal disinfectant against Mycobacterium bovis (BCG) at a 1000 ppm activated use solution of Anthium Dioxide® (100 ppm free chlorine dioxide) in 10 minutes at 30 deg C.
Anthium Dioxide® is an effective virucide against the following viruses at a 800 ppm activated use solution of Anthium Dioxide® (80 ppm free chlorine dioxide) in 10 minutes, 15 minutes for Coxsackie (ATCC 37201), HIV-1 (ATCC 1522) and VSV, Dengue virus (ATCC VR-299), Rotovirus (ATCC 252A.90), Influenza virus (MVA-289), Mumps virus (MVA-289), and Parainfluenza virus, Type 1 (ATCC VR-105 SENDEI/52)

Anthium Dioxide® is the sanitizer against Salmonella typhi at a 100-200 ppm activated use solution of Anthium Dioxide® in 10 seconds.

Anthium Dioxide® and reg. a 800ppm/D 以下のウイルスに対する有効な殺ウイルス薬です。
(100ppmの遊離塩素二酸化塩素)10分、CanineパルボウイルスATCC VR-2017は60分、

- HIV-1(エイズ)ウイルス(JHTLV-IIIB)
- イソボロウイルスATCC VR-2017
- ネズミコロウイルス RCV-SDA-081
- マウス肝炎ウイルス(MHV-A59)
- ネズミMVM-PMの微小ウイルス
- パライフルエンザウイルス, Type1 ATCC VR-105 SENDEI/52

→ A型インフルエンザ

Food-Contact Surface Sanitizing Solution
Prior to sanitization, remove all gross food particles and soil by use of a pre-bath, pre-scrub or pre-soak treatment.
Prepare a 200 ppm activated use solution of Anthium Dioxide® by using one of the three procedures described below:
1. Add 1 part Anthium Dioxide® to 50 parts water and then activate by adding food-grade citric, phosphoric, ascorbic or other equivalent food-grade acid to at least 50% (pH) to a pH of 2.0. Please contact your SD or authorized representative regarding equivalent acids. Agitate for 5 minutes and then allow to stand for 15 minutes. Then dilute 1 part of the activated solution with 24 parts of water.

2. Add 1 gallon of Anthium Dioxide® to 50 gallons of water followed by 300 grams (1.1 lbs.) of Activator K. Allow to stand for 15 minutes after agitation for 5 minutes and then dilute 1 part with 4 parts of water.
3. An electrolytically activated use solution can be prepared by adding Anthium Dioxide® directly to the DIOXICLOR® generator. The activated use solution prepared by the DIOXICLOR® generator must comply between 95 and 100 ppm of Anthium Dioxide®. For proper activation, consult the DIOXICLOR® authorized representative.

After dilution to minimize wetting, handling, an automatic system can also be utilized that will safely activate the concentrate of Anthium Dioxide® with one of the various acids listed to deliver the proper pH and safety dilute the material to the 200 ppm working solution.

Use Anthium Dioxide® at the rate of 0.75 oz. per 100 gal. of water. Conditions may be adjusted for other applications.

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