

Safety Data Sheet

Bio-Cide Scaninavia AB
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1. IDENTIFICATION OF THE SUBSTANCE / COMPANY

Name of the product: SANOGENE

Product: Stabilized chlorine dioxide

Supplier: Bio-Cide International Inc. Norman, Oklahoma, USA.

In case of emergency call 112.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Subject	CAS-nr	Content	Hazards
Sodium chlorite	7750-19-2	3,35%	R 36,37,38
Chlorine dioxide	10049-04-4	trace	
Water		96,65%	

3. RISKS

The concentrate is irritating to the eyes, respiratory tract, and skin. May cause headache and dizziness. Organic materials such as cloth, paper, wood and leather can, when the concentrate is dried out, catch fire through friction or heat.

4. FIRST AID

Inhalation: Find the fresh air as soon as possible and ventilate well.

Skin contact: Flush with water, wash area with water and soap. Remove contaminated clothing and wash before worn again.

Eye contact: Immediately rinse with water for a few minutes. In case of persistent complaints consult a doctor.

Ingestion: Drink milk, preferably with soft bread, otherwise drink a lot of water. Do not induce vomiting. In case of persistent complaints, seek expert medical advice.

5. FIRE FIGHTING MEASURES

Extinguish with water if this is not contraindicated with other involved items. Ventilation prevents accumulation of chlorine dioxide gas. Chlorine dioxide gas is explosive at a volume of 10% or more.

6. ACCIDENTAL RELEASE MEASURES

Spillage or release of less than 30liter concentrate may be flushed down the sewer with an abundance of water. Chlorine dioxide can be neutralized with sodium sulfite. Never allow the material to dry in or crystallize.

7. HANDLING AND STORAGE

Handling: Only according to the instructions. Avoid skin and eye contact. Avoid vapor formed during activation. Rinse the equipment and used materials. Contact with cloth and leather can cause discoloration / bleach.

Storage: Cool, dry and dark. Prevent contact with acids, chlorine and chlorine compounds, organic solvents, sulfur compounds and phosphorus. Avoid sun exposure. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical measures: Provide adequate ventilation. Do not inhale vapors when activating the concentrate.

Respiratory protection: When spraying the product with a spray gun, wear a respiratory mask for chlorine (type BE). Wear protective clothing and safety goggles when working with the concentrate and / or spray gun. For other applications with short exposure to the solution (diluted with water), this is normally not required.

Protection: When applied with a cloth or similar, wear gloves (PVC, latex, vinyl)

Eye protection: Safety glasses when spreading with a spraying device. Not necessary with other applications.

Skin protection: Wear protective clothing when spreading with a spraying device. Not necessary with other applications.

9. PHYSICAL AND CHEMICAL PROPERTIES

pH	8,2
Boiling point (°C)	100,5
Melting point (°C)	-1,72 C
Analysis temperature (°C)	
Flash point (°C)	
Self-ignition temperature (°C)	
Flammability (solid, gas)	
Explosive properties	Gas with a content of more than 10% (volume) is explosive
Explosion Limit	
Oxidizing properties	Metals oxideze and some plastics can be affected
Vapor pressure (kPa)	23,7 (mkg)
Vapor density (air=1)	
Density(g/cm ³)	1,03
relative density	
Solubility (weight-%)	100
Partition coefficient octanol / water	

10. STABILITY AND REACTIVITY

The concentrate is stable. Activated product has oxidation as the main effect.

11. TOXICOLOGICAL INFORMATION

Inhalation: Prolonged inhalation of spray or mist may cause respiratory irritation.

Swallow: Oral LD (50) on rats 4360mg / kg. Ingestion may cause stomach ache, nausea, vomiting and diarrhea. Larger intake may cause methemoglobinemia (irreversible damage to red blood cells).

Skin contact: Contact with the concentrate causes no more than mild irritation. Skin absorption is minimal.

Eye contact: Only mild irritation will occur when a water purge is performed immediately. With a water rinse the reaction is mild even at contact with the concentrate.

12. ECOLOGICAL INFORMATION

Oxichlor compounds with sodium are the basis for this product. The relationship between the response equilibrium is controlled by the PH and the amount of load of the solution. Residues will contain traces of sodium salts in the form of sodium chloride (NaCl) and water. Organic compounds such as trihalomethanes (THM) and dioxins are not formed under normal conditions.

13. INSTRUCTIONS FOR REMOVAL / WASTE PROCESS

Wash away in the sink. Large amounts (more than 30 liters concentrate) must be neutralized first with sodium sulfite solution. It does not form dangerous substances during the degradation like other chlorine compounds, but usually just salt (NaCl) and water.

14. TRANSPORT INFORMATION

All means of transport can be used. The product is not sensitive to low temperatures, and if it freezes, you can simply shake the product to dissolve the sodium salts.

ADR (car-train):

Classification: **substance-nr:** **danger-nr:**

IMDG (boat):

Classification: **Page:** **EmS No:** **MFAG No:**

**Marine
pollutant:**

IATA (airplane):

Class:

FN-nr: **Packaging
group:**

15. LEGISLATIVE INFORMATION

Hazard symbol: Andreas Cross.

Hazard sentences R 36. Irritating to eyes. R37. Irritating to respiratory system. R38. Irritating to skin.

16. OTHER INFORMATION

SANOGENE is a fast-acting disinfectant that is effective against all bacteria, viruses, fungi and spores. It has a strong odor inhibitory effect. Microbiological coating called bio-film is effectively solved. Reports of resistant microorganisms are missing. Chlorine dioxide can be used very widely, but requires for the optimal effect that the instructions for each use are carefully followed.