

MATERIAL SAFETY DATA SHEET

AAV-08

Material Identification and Use

EFFECTIVE DATE.....8/21/06 (Supersedes: 7-13-05)
MANUFACTURED FOR .....INTERNATIONAL CHEMTEX CORPORATION
ADDRESS .....8287 214th St. West \* Lakeville, MN 55044
PHONE.....(952) 469-4965
EMERGENCY PHONE NUMBER .....(800) 424-9300 CHEMTREC
DOT SHIPPING NAME .....Chlorite solution, 8, UN1908, PG III
HAZARD CLASS .....Corrosive
UN NUMBER .....UN 1908
PRODUCT USE .....This product is designed for use in industrial, commercial or institutional water treatment systems. This product is not for use in potable water systems.

Hazardous Ingredients

Table with 4 columns: HAZARDOUS INGREDIENTS, PERCENT (%), TLV (Units), CAS NUMBER. Row 1: Stabilized Chlorine Dioxide, 8, NE, 10049-04-4

Physical Data

PHYSICAL STATE .....Liquid
BOILING POINT .....NE
MELTING POINT.....NE
FREEZING POINT .....-3°C
VAPOR PRESSURE .....0.03 mm Hg @ 25°C
VAPOR DENSITY (air=1).....NE
EVAPORATION RATE.....1
SOLUBILITY IN H2O .....Complete
VOLATILITY/VOL(%) .....NE
pH .....11.8
SPECIFIC GRAVITY .....1.056
DENSITY (g/ml) .....NE
ODOR AND APPEARANCE .....Clear pale yellow solution; odorless.

# MATERIAL SAFETY DATA SHEET

AAV-08

---

---

## Fire and Explosion Hazard Data

---

---

FLASHPOINT AND METHOD OF DETERMINATION ..... None  
AUTO-IGNITION TEMPERATURE ..... NA  
UPPER EXPLOSION LIMIT(% BY VOL) ..... NA  
LOWER EXPLOSION LIMIT(% BY VOL) ..... NA  
MEANS OF EXTINGUISHMENT ..... In case of fire, use water spray, foam, dry chemical or CO<sub>2</sub>.  
Water or Water Fog  
HAZARDOUS COMBUSTION PRODUCTS ..... None known  
SPECIAL FIREFIGHTING PROCEDURES ..... If any free ClO<sub>2</sub> is present, wear full gear including self  
contained breathing apparatus  
UNUSUAL FIRE AND EXPLOSION DATA ..... Liberation of ClO<sub>2</sub>: Flush area with large amounts of air to  
keep the concentration below 10%, the explosive limit in air.  
If material in solution is allowed to dry, friction may cause  
ignition and fire.

---

---

## Reactivity Data

---

---

CHEMICAL STABILITY ..... Stable  
HAZARDOUS POLYMERIZATION ..... Will not occur  
INCOMPATIBLE MATERIALS ..... Stabilized chlorine dioxide is a strong oxidizing agent and should be  
kept away from acids, organic materials, reducing agents, oxidizing  
agents and chlorine donors. Contact with any of the above materials  
will release free ClO<sub>2</sub> which is very toxic. Do not allow AAV-08 to  
dry on cloth due to danger of fire from oxidation.  
HAZARDOUS DECOMPOSITION PRODUCTS ..... Chlorine Dioxide - ClO<sub>2</sub>  
CONDITIONS OF REACTIVITY ..... NA

---

---

## Health Hazard Data

---

---

ROUTES OF ENTRY  
BY EYE CONTACT ..... Possible  
BY SKIN CONTACT ..... Possible  
BY SKIN ABSORPTION ..... NA  
BY INHALATION ..... Possible  
BY INGESTION ..... Possible  
TLV (UNITS) ..... NE  
ACUTE OVER EXPOSURE EFFECTS ..... Eye irritant. Risk of serious eye damage. Skin irritant.  
CHRONIC OVER EXPOSURE EFFECTS ..... Contact with acids or oxidizing agents will liberate free chlorine  
dioxide gas which can cause death with long exposures, or  
explosions above 10% concentration in air.

### CARCINOGENIC ACCORDING TO THE FOLLOWING:

NTP? ..... No  
IARC MONOGRAPHS? ..... No  
OSHA REGULATED ..... No  
OTHER .....

# MATERIAL SAFETY DATA SHEET

AAV-08

---

---

## First Aid Measures

---

---

SPECIFIC FIRST AID PROCEDURES ..... Flush eyes with abundant water. Consult a physician. Promptly remove contaminated clothes. Wash skin with soap and water. If irritation persists, consult a physician. If ingested, give water. Do not induce vomiting. Call a physician. If affected by inhalation of vapor or spray mist, remove to fresh air.

---

---

## Preventive Measures

---

---

LEAK AND SPILL PROCEDURES ..... Contain the spill and absorb with an inert material. Collect.  
WASTE DISPOSAL ..... Dispose of contaminated product via an approved chemical waste disposal firm and in accordance with all federal, state and local regulations. Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.  
HANDLING PROCEDURES AND EQUIPMENT ..... Wear a face shield and avoid all skin contact. Handle an open container with care.  
STORAGE REQUIREMENTS ..... Store in a tightly sealed container. Store in a cool, dry and well-ventilated area. Avoid temperatures above 145°F and freezing conditions, evaporation to dryness, exposure to sunlight.

---

---

## Control Measures

---

---

RESPIRATORY PROTECTION ..... If there is more than 10% concentration in air of AAV-08 a Wilson Type 2200 GF-3 gas mask or a self contained breathing apparatus can be used.

VENTILATION

    LOCAL EXHAUST ..... If any free ClO<sub>2</sub> is present in the system, control airborne concentrations below 0.1ppm. Local exhaust ventilation may be required for some operations.

    MECHANICAL EXHAUST ..... Possible

    OTHER.....

PROTECTIVE GLOVES ..... Wear suitable neoprene gloves.

EYE PROTECTION..... Wear eye/face protection

OTHER PROTECTIVE EQUIPMENT..... Wear suitable protective clothing.

MATERIAL SAFETY DATA SHEET

AAV-08

Regulatory Information

HAZARD RATING: Health: 1 Fire: 0 Reactivity: 1
HAZARD RATING SCALE: 0=Minimal 3=Serious 1=Slight 4=Severe 2=Moderate

SUPERFUND AMMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III

Ingredients covered under the following sections:

CERCLA Hazardous Substance: ..... NA

SARA Toxic Chemical : ..... Chlorine Dioxide

OTHER.....

IN ACCORDANCE WITH VARIOUS STATE (U.S.) REGULATIONS THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL INGREDIENTS:

Table with 2 columns: INGREDIENTS, CAS NUMBER. Rows: Chlorine Dioxide (10049-04-4), Inert Ingredients (NA)

Preparation Information

PREPARED BY .....PTD
PHONE NUMBER OF PREPARER.....(952) 469-4965

DISCLAIMER:

The above information and recommendations are accurate to the best of our knowledge. However, the company assumes no liability for the accuracy or completeness of the information contained herein and disclaims all liability for the reliance thereon. All chemicals present unknown health hazards and should be used with caution. The user should satisfy himself by independent investigation that he has all current data relevant to his particular use.

UN - Unavailable NA - Not Applicable NE - Not Established