BR100

**F-Matic Inc.**
**299 S Millpond Dr**
**Lehi, UT 84043**
**801-768-2000**

# MATERIAL SAFETY DATA SHEET

## Section 1 - Product and Company Information

Product Name SODIUM DICHLORO ISOCYANURATE, 60%
Product Number
Brand: Bleach Ring
Company: F-Matic Inc.
Address: 299 S. Millpond DR
Lehi, UT 84043
Technical Phone: 801-768-2000
Fax: 888-878-8828

## Section 2 - Composition/Information on Ingredient

Substance Name CAS #
SODIUM DICHLOROISOCYANURATE
Formula C3CL2N3NAO3
Synonyms Sodium Dichloro-s-Triazinetrione, Anhydrous; 1, 3, 5-triazine-2, 4, 6(1h, 3h, 5h)-trione, 1, 3-dichloro-, sodium salt

## Section 2 - Composition and Information on Ingredients

Exposure Limits
Name CAS # % by Weight TLV/PEL LC50/LD50
Sodium Dichloroisocyanurate 002893789 100 N/A ORAL (LD50):
Acute: 620mg/kg [Rat].
DERMAL (LD50):
Acute: 11000mg/kg [Rabbit].

## Section 3 - Hazards Identification

**Potential Acute Health Effects**

Extremely hazardous in case of ingestion. Very hazardous in case of skin contact (corrosive, irritant), of eye contact (Irritant), of inhalation. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Potential Chronic Health Effects**

CARCINOGENIC EFFECTS: N/A
MUTAGENIC EFFECTS: N/A
TERATOGENIC EFFECTS: N/A
DEVELOPMENTAL TOXICITY: N/A
Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

## Section 4 - First Aid Measures

**Eye Contact**

Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.

**Skin Contact**

If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's

exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and nonabrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

**Hazardous Skin Contact**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

**Inhalation**

Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.

**Hazardous Inhalation**

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

**Ingestion**

DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

**Hazardous Ingestion**

No additional information.

## Section 5 - Fire and Explosion Data

The Product is: May be combustible at high temperature.
Auto-Ignition Temperature N/A
Flash Points N/A
Flammable Limits N/A
Products of Combustion N/A
Fire Hazards in presence Flammable in combustible materials, of Presence of organic materials.
of Substances Various
Explosion Hazard in Risks of explosion of the product in presence of mechanical impact: N/A
Presence of Risks of explosion of the product in presence of static discharge: N/A
Various Substances Explosive in presence of organic materials.
Fire Fighting Media Oxidizing material. and Instructions DO NOT use water jet. Use flooding quantities of water. Avoid contact with organic materials.
Special Remarks No additional remark. on Fire Hazards
Special Remarks No additional remark. on Explosion Hazards

## Section 6 - Accidental Release Measures

**Small Spill**

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Large Spill**

Oxidizing material. Corrosive solid.
Stop leak if without risk. DO NOT get water inside container. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keeps substance damp using water spray. DO NOT touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Call for assistance on disposal.

## Section 7 - Handling and Storage

**Precautions**

Keep locked up. Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible materials. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. DO NOT ingest. DO NOT breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents, combustible materials, organic materials, acids.

**Storage**

Keep container dry. Keep in a cool place. Ground all equipment containing material. Corrosive materials should be stored in a separate safety storage cabinet or room.

## Section 8 - Exposure Controls/Personal Protection

**Engineering Controls**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection**

Splash goggles. Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill**

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits**

N/A

## Section 9 - Physical and Chemical Properties

Physical State and Appearance Solid. (Granular solid. Powdered solid.)
Color White.
Odor Pungent. Chlorine
Molecular Weight 220.96 g/mole
Taste N/A
pH (1% soln/water) 6 [Acidic.]
Boiling Point N/A
Melting Point N/A
Critical Temperature N/A
Specific Gravity 0.96 (Water = 1)
Vapor Pressure 0 mm of Hg (@ 20.C)
Vapor Density 9.04 (Air = 1)
Volatility N/A
Odor Threshold N/A
Evaporation rate N/A
Viscosity N/A
Water/Oil Dist. Coeff. N/A
Ionicity (in Water) N/A
Dispersion Properties See solubility in water.
Solubility Soluble in cold water.
Very slightly soluble in acetone.

## Section 10 - Stability and Reactivity Data

**Stability**

The product is stable.

**Instability Temperature**

N/A

**Conditions of Instability**

Contact with ammonia, ammonium salts, urea or similar compounds, which contain nitrogen, may form nitrogen trichloride a highly explosive compound. Mixture with nonionic surface active agents may result in exothermic reactions causing fire or explosion. Keep away from heat.

**Incompatibility with various substances**

Highly reactive with reducing agents, combustible materials, organic materials, acids.

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**Corrosivity**
No specific information is available in our database regarding the Corrosivity of this product in presence of various materials.
**Special Remarks on Reactivity**
Hazardous Decomposition Products: Chlorine, hydrogen chloride, nitrogen trichloride.
**Special Remarks on Corrosivity**
No additional remark.
**Hazardous Polymerization**
No.

## Section 11 - Toxicological Information
**Routes of Entry**
Absorbed through skin. Eye contact. Inhalation. Ingestion.
**Toxicity to Animals**
Acute oral toxicity (LD50): 620 mg/kg [Rat].
Acute dermal toxicity (LD50): 11000 mg/kg [Rabbit].
**Chronic Effects on Humans**
CARCINOGENIC EFFECTS: N/A
MUTAGENIC EFFECTS: N/A
TERATOGENIC EFFECTS: N/A
DEVELOPMENTAL TOXICITY: N/A
Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
**Other Toxic Effects on Humans**
Extremely hazardous in case of ingestion. Very hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant), of inhalation. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
**Special Remarks On Toxicity to Animals**
No additional remark.
**Special Remarks On Chronic Effects on Humans**
No additional remark.
**Special Remarks on Other Toxic Effects on Humans**
No additional remark.

## Section 12 - Ecological Information
Ecotoxicity N/A
BOD5 and COD N/A
Products of Biodegradation Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. Toxicity of Products The products of degradation are less toxic than the product itself.of Biodegradation
Special Remarks on the No additional remark.
Products of Biodegradation

## Section 13 - Disposal Considerations
**Waste Disposal**
Recycle, if possible. Consult your local or regional authorities.

## Section 14 - Transport Information
TDG Classification TDG CLASS 5.1: Oxidizing substance.
Shipping name Dichloroisocyanuric acid salts
PIN UN2465
Packing Group II
Special Provisions for Transport No additional remark.

## Section 15 - Other Regulatory Information
Other OSHA: Hazardous by definition of Hazard Communication

Regulations Standard (29 CFR 1910.1200).

## Section 16 - Other Information

**DISCLAIMER**

**WARRANTY**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. F-Matic Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.