#### MATERIAL SAFETY DATA SHEET



## 1. Product and Company Identification

Product Name Fluidmaster Bleach Cartridge

CAS # Mixture

Product use Toilet bowl cleaner

Manufacturer Fluidmaster Inc.

30800 Rancho Viejo Road

San Juan Capistrano, CA 92675 US Emergency Phone: 1-800-805-1770

#### 2. Hazards Identification

Emergency overview DANGER

POISON

CORROSIVE TO EYES AND SKIN

Oxidizing material.

May cause sensitization by skin contact. KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes Causes chemical burns. May cause blindness.

Skin Causes chemical burns. Contains a potential skin sensitizer.

Inhalation Excessive intentional inhalation may cause respiratory tract irritation and central nervous

system effects (headache, dizziness).

Ingestion Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

Target organs Eyes. Respiratory system. Skin.

**Chronic effects** Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms The product causes burns of eyes, skin and mucous membranes. Symptoms may

include redness, edema, drying, defatting and cracking of the skin.

OSHA Regulatory Status

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

environmental concerns.

# 3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
1,3-Dichloro-5-ethyl-5-methylhydantoin	89415-87-2	7 - 13
2,4-Imidazolidinedione, 1-bromo-3-chloro-5,5-dimethyl-	16079-88-2	40 - 70
1,3-Dichloro-5,5-dimethyl hydantoin	118-52-5	15 - 40

#### 4. First Aid Measures

First aid procedures

Eye contact 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 eye. Call a poison

control center or doctor for treatment advice.

**Skin contact** If on skin, wash with plenty of soap and water. Get medical attention if irritation persists.

**Inhalation** Remove affected person to fresh air. If person is not breathing, call 911 or an

ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a

poison control center or doctor for further treatment advice.

**Ingestion** Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce

risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing.

Obtain medical attention.

Notes to physician Symptoms may be delayed. If the product is ingested, probable mucosal damage may

contraindicate the use of gastric lavage. Treat the affected person appropriately.

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If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children. Immediate medical attention is required.

## 5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

Dry chemical. Carbon dioxide. Foam.

Not available

**Protection of firefighters** 

Specific hazards arising from

the chemical

Container may explode in heat of fire.

Firefighters should wear full protective clothing including self contained breathing

Protective equipment for firefighters

**Hazardous combustion products** 

May include and are not limited to: Oxides of nitrogen. Hydrogen chloride.

**Explosion data** 

Sensitivity to mechanical impact Not available Sensitivity to static discharge Not available

### 6. Accidental Release Measures

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not Personal precautions

touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions** Methods for containment

Do not discharge into lakes, streams, ponds or public waters.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).

Prevent entry into waterways, sewers, basements or confined areas.

Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum Methods for cleaning up

to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services

and supplier for advice.

# 7. Handling and Storage

Handling Use good industrial hygiene practices in handling this material.

May cause chemical burns to eyes and skin. Avoid contact with eyes, skin and clothing.

Keep out of reach of children. Storage

Store in a closed container away from incompatible materials.

Keep away from heat, open flames or other sources of ignition.

## 8. Exposure Controls / Personal Protection

Exposure Limits
ACGIH-TLV
TWA: 0.2 mg/m3
STEL: 0.4 mg/m3
OSHA-PEL
TWA: 0.2 mg/m3
ACGIH-TLV
Not established
OSHA-PEL
Not established
ACGIH-TLV
Not established
OSHA-PEL
Not established

General ventilation normally adequate. Provide adequate ventilation. **Engineering controls** 

Personal protective equipment

Eye / face protection Chemical splash goggles.

Rubber gloves. Confirm with a reputable supplier first. Hand protection

As required by employer code. Skin and body protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection

Handle in accordance with good industrial hygiene and safety practice. General hygiene considerations

When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

## 9. Physical and Chemical Properties

Solid. **Appearance** White. Color **Form** Tablets Bleach Odor **Odor threshold** Not available Solid Physical state 3.6 (1%) рH **Melting point** Not available Not available Freezing point Not available **Boiling point** Not available Pour point Not available **Evaporation rate** 287 °F (141.66 °C) Flash point **Auto-ignition temperature** Not available Flammability limits in air, lower, % Not applicable by volume Flammability limits in air, upper, % Not applicable by volume Vapor pressure Not available Not available Vapor density Not available Specific gravity Not available Octanol/water coefficient Solubility (H2O) 0.54 g/100 g water Not available

Percent volatile

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## 10. Stability and Reactivity

Reactivity

This product may react with strong acids.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Stable under recommended storage conditions.

**Conditions to avoid**Do not mix with anything but water. **Incompatible materials**Oxidizers. Ammonia. Acids.

Hazardous decomposition products May include and are not limited to: Oxides of nitrogen. Hydrogen chloride.

# 11. Toxicological Information

Not available

Acute effects Acute LD50: 468 mg/kg, Rat, Oral

Component analysis - LC50

Ingredient(s)

1,3-Dichloro-5,5-dimethyl hydantoin

LC50

Not available

2,4-Imidazolidinedione, 1-bromo-3-chloro-5,5-dimethyl-

Component analysis - Oral LD50

1,3-Dichloro-5-ethyl-5-methylhydantoin

Ingredient(s) LD50

1,3-Dichloro-5,5-dimethyl hydantoin
542 mg/kg rabbit; 542 mg/kg rat
1,3-Dichloro-5-ethyl-5-methylhydantoin
542 mg/kg rat
2,4-Imidazolidinedione, 1-bromo-3-chloro-5,5-dimethyl578 mg/kg rat

Effects of acute exposure

**Eye** Causes chemical burns. May cause blindness.

**Skin** Causes chemical burns. Contains a potential skin sensitizer.

Inhalation Excessive intentional inhalation may cause respiratory tract irritation and central nervous

system effects (headache, dizziness).

**Ingestion** Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

SensitizationContains a potential skin sensitizer.Chronic effectsNon-hazardous by WHMIS/OSHA criteria.CarcinogenicityNon-hazardous by WHMIS/OSHA criteria.MutagenicityNon-hazardous by WHMIS/OSHA criteria.Reproductive effectsNon-hazardous by WHMIS/OSHA criteria.TeratogenicityNon-hazardous by WHMIS/OSHA criteria.

Name of Toxicologically Synergistic Not available

**Products** 

## 12. Ecological Information

**Ecotoxicity** Components of this product have been identified as having potential environmental

concerns.

Persistence / degradability This product is biodegradable.

Bioaccumulation / accumulation Not available
Mobility in environmental media Not available
Environmental effects Not available
Aquatic toxicity Not available
Partition coefficient Not available
Chemical fate information Not available
Other adverse effects Not available

# 13. Disposal Considerations

**Disposal instructions** Dispose in accordance with all applicable regulations.

Waste from residues / unused Not available

products

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# 14. Transport Information

#### **U.S. Department of Transportation (DOT)**

OXIDIZING SOLID, CORROSIVE, N.O.S.: Class 5.1 (8); UN3085; PG II, CONSUMER COMMODITY ORM-D or Ltd. Qty.

### Transportation of Dangerous Goods (TDG - Canada)

OXIDIZING SOLID, CORROSIVE, N.O.S.: Class 5.1(8); UN3085; PG II, CONSUMER COMMODITY or Ltd. Qty.

IATA/ICAO (Air)

OXIDIZING SOLID, CORROSIVE, N.O.S.: Class 5.1 (8); UN3085; PG II, Ltd. Qty.

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OXIDIZING SOLID, CORROSIVE, N.O.S.: Class 5.1 (8); UN3085; PG II, Ltd. Qty.

# 15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

Canada - WHMIS - Ingredient Disclosure List

1,3-Dichloro-5,5-dimethyl 118-52-5 1 %

hydantoin

WHMIS status Controlled

WHMIS classification Class C - Oxidizing Material, Class D - Division 1B, 2B, Class E - Corrosive Material

WHMIS labeling







Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

Yes

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

**CERCLA (Superfund) reportable quantity** 

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - Yes

Section 302 extremely

hazardous substance

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available
Clean Water Act (CWA) Not available

#### State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

#### U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

1,3-Dichloro-5,5-dimethyl 118-52-5 Present

hydantoin

U.S. - Massachusetts - Right To Know List

1,3-Dichloro-5,5-dimethyl 118-52-5 Present

hydantoin

U.S. - Minnesota - Hazardous Substance List

1,3-Dichloro-5,5-dimethyl 118-52-5 Present

hydantoin

U.S. - New Jersey - Right to Know Hazardous Substance List 1,3-Dichloro-5,5-dimethyl 118-52-5 sn 0650

hydantoin

U.S. - Pennsylvania - RTK (Right to Know) List

1,3-Dichloro-5,5-dimethyl 118-52-5 Present

hydantoin

U.S. - Rhode Island - Hazardous Substance List

1,3-Dichloro-5,5-dimethyl 118-52-5 Toxic

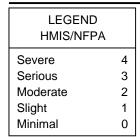
hydantoin

#### Inventory name

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### 16. Other Information







Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first

page of the document.