

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER/SUPPLIER: **US Office:** **WD-40 Company** **1061 Cudahy Place** **San Diego, CA 92110** **Information Phone #: (619) 275-1400** **Emergency Phone # 24 hr:** **Chemtrec: (800) 424-9300** Designated for use only in the event of chemical emergencies involving a spill, leak, fire exposure or accident involving chemicals.	**Canadian Office:** **WD-40 Products [Canada] Ltd.** **P.O. Box 220** **Toronto, Ontario M9C 4V3** **Information Phone #: (416) 622-9881** **Emergency Phone # 24 hr:** **Canutec: (613) 996-6666** Designated for use only in the event of chemical emergencies involving a spill, leak, fire exposure or accident involving chemicals.

PRODUCT NAME: 2000 Flushes Chlorine
PRODUCT USE: Toilet Bowl Cleaner and Deodorizer
MSDS DATE OF PREPARATION: July 23, 2013

SECTION 2 HAZARDS IDENTIFICATION

DANGER! Bleach tablets are strong oxidizers. Possible fire hazard in contact with flammable or combustible material. Bleach tablets are corrosive and may cause burns to the eyes, skin, mouth and gastrointestinal tract. May be fatal if swallowed. Repeated exposure may cause allergic skin reaction (sensitization).

POTENTIAL HEALTH EFFECTS:
PRIMARY ROUTES OF ENTRY: Skin and eye contact.
ACUTE EFFECTS:
INGESTION: Bleach Tablets are corrosive and will cause immediate and severe burns of the mucous membranes of the mouth and gastrointestinal tract. May be fatal if swallowed.
EYES: Bleach Tablets are corrosive. Direct contact will cause severe irritation, pain, burns and possible permanent eye damage.
SKIN: Bleach Tablets are corrosive. Direct contact with wet tablet or moist skin may cause severe irritation and possible burns. Repeated skin contact may result in sensitization with swelling and rash.
INHALATION: Inhalation is not a normal route of exposure for this product. If dust from Bleach Tablets is inhaled, severe irritation of the nose, mouth and upper respiratory tract would be expected. May aggravate existing respiratory conditions such as asthma.
CHRONIC EFFECTS: None currently known.

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Percent
Bleach Tablet		
1,3-Dichloro-5,5-dimethylhydantoin	118-52-5	81.1%
1,3-Dichloro-5-ethyl-5-methylhydantoin	89415-87-2	16.1%
Chloro-5-ethyl-5-methylhydantoin	Not assigned	1.8%
Non-Hazardous Ingredients	Mixture	1.0%

SECTION 4 FIRST AID MEASURES

For Medical Emergencies Call 1-888-324-7596 (24 hours/day)
Ingestion (Swallowed): Rinse out mouth and give sips of water. DO NOT INDUCE VOMITING. Get immediate medical attention. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596.
Eye Contact: Flush with water. Remove contact lenses if present and flush again with water for at least 15-20 minutes. Get immediate medical attention.
Skin Contact: Immediately flush skin with plenty of water for 15-20 minutes. Remove any contaminated clothing and rinse immediately with water to dilute concentrated bleach. Launder clothing before reuse. If irritation develops and persists, get medical attention. Note concentrated bleach in contact with clothing may be a fire hazard.
Inhalation (Breathing): If dust from product is inhaled, move to fresh air. If the person is not breathing call 911 or an ambulance, then give artificial respiration. Call a poison center for treatment advice. Have the product container or label with you when calling a poison center or going for treatment.
Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Flood with water or foam. Do not use dry chemicals, carbon dioxide or halogenated extinguishing agents.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing for fires involving chemicals.
UNUSUAL FIRE/EXPLOSION HAZARDS: Heating Bleach Tablets will generate noxious gases. To minimize the generation of these gases, flood with a large quantity of water. Bleach Tablets are strong oxidizers and may react with flammable or combustible materials to cause a fire or explosion.

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL RESPONSE: Bleach Tablets spilled from a single retail package should be carefully collected and flushed down the drain with plenty of water. Do not generate airborne dust. If a damp cloth or paper towel is used to collect material, rinse it thoroughly with a large amount of water before reuse or disposal. Concentrated bleach may cause a fire in contact with paper, rags or other combustible material.

SECTION 7. HANDLING AND STORAGE

HANDLING: Do not touch tablet. Do not get in eyes, on skin or clothing. Wear rubber gloves when handling. Avoid breathing dust from product. Wash thoroughly after use. Keep out of the reach of children. Keep Bleach Tablets away from flammable and combustible materials. DO NOT mix with anything other than water.

STORAGE: Store in original container in a cool, dry, well-ventilated area. Do not store at elevated temperatures. Avoid heat and direct sunlight.

SECTION 8. EXPOSURE CONTROLE/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

1,3-Dichloro-5,5-dimethylhydantoin	0.2 mg/m3 TWA OSHA PEL/ACGIH TLV 0.4 mg/m3 STEL ACGIH TLV
1,3-Dichloro-5-ethyl-5-methylhydantoin	0.2 mg/m3 TWA (Manufacturer Recommended)
Chloro-5-ethyl-5-methylhydantoin	0.2 mg/m3 TWA (Manufacturer Recommended)

The Following Controls are Recommended for Normal Consumer Use of this Product
Engineering Controls: No special controls required for normal use.
Personal Protection:
Eye Protection: None normally required. Prevent eye contact. When opening, hold plastic pouch away from face.
Skin Protection: Avoid skin contact. Wear rubber gloves when handling product.
Respiratory Protection: None required for normal use.

For Bulk Processing or Workplace Use the Following Controls are Recommended
Engineering Controls: Use with adequate general ventilation or local exhaust to minimize exposure levels.
Personal Protection:
Eye Protection: Chemical safety goggles recommended.
Skin Protection: Wear rubber gloves and protective clothing as required to prevent skin contact.
Respiratory Protection: None required for handling finished product. If exposure levels are excessive, wear an approved respirator. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with applicable regulations and good Industrial Hygiene practice.
Work/Hygiene Practices: Prevent contact with the eyes, skin and clothing. Wash thoroughly after handling.

SECTION 9. PHYSICAL DATA

APPEARANCE AND ODOR: Off-white tablet with a chlorine odor.

Boiling Point:	Not applicable	Specific Gravity:	Not available
Solubility in Water:	0.56 g/100 g @ 25°C	pH:	3.6 (1% solution)
Vapor Pressure:	Not available	Vapor Density:	Not available
Percent Volatile:	<0.5	Flash Point:	None
Coefficient of Water/Oil Distribution:	Not Determined	Flammable Limits:	Not applicable

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable
INCOMPATIBILITY: Acids, bases, moisture, reducing agents, readily utilizable materials including flammable and combustible materials.
CONDITIONS TO AVOID: Avoid high temperatures and direct sunlight.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition of Bleach Tablets may generate noxious gases including chlorine, nitrogen oxides, carbon oxides, organic materials.

SECTION11 TOXICOLOGICAL INFORMATION

1,3-Dichloro-5,5-dimethylhydantoin: Oral LD50 rat 618 mg/kg, Dermal LD50 rabbit >20 g/kg, eye irritation (rabbit) severe, skin irritation (rabbit) corrosive, Buehler test (guinea pig) sensitizing.
1,3-Dichloro-5-ethyl-5-methylhydantoin: Oral LD50 rat 579 mg/kg, skin irritation (rabbit) corrosive.
None of the components of this product is listed as a carcinogen or suspected carcinogen or is considered a reproductive hazard.

SECTION12 ECOLOGICAL INFORMATION

1,3-Dichloro-5,5-dimethylhydantoin: LC50 fish 1.1 mg/L/96 hr, EC50 daphnia magna 0.95 mg/L/48 hr.
1,3-Dichloro-5-ethyl-5-methylhydantoin: LC50 fish 0.87 - 1.1 mg/L/96 hr, EC50 daphnia magna 0.95 mg/L/48 hr. EbC50 green algae 0.12 mg/L/72 hr.
Concentrated material is toxic to aquatic organisms. Diluted product in use is not expected to present a hazard to the environment.

SECTION13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose in accordance with federal, state, and local regulations.

SECTION14 TRANSPORT INFORMATION

U.S. DOT Hazard Classification: Consumer Commodity, ORM-D

Canadian TDG Classification: Consumer Commodity (Limited Quantity)

International (Export) Shipping Description: UN3085, OXIDIZING SOLID, CORROSIVE, N.O.S. (1,3-DICHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE, 5.1 (8), III

SECTION15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity**:** This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills as required under federal, state and local regulations.

SARA TITLE III:
Hazard Category for Section 311/312**:** Acute Health, Fire Hazard
Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None
Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

CANADIAN REGULATIONS:
Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List or exempt from notification

Canadian WHMIS Classification: Class C (Oxidizing Material), Class E (Corrosive)

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

Section 16 – Other Information__

HMIS Hazard Rating: Health – 3 (serious hazard), Fire Hazard – 0 (minimal hazard), Physical Hazard – 2 (moderate hazard)

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Prepared By: Industrial Health & Safety Consultants, Inc. 1-203-929-3473

Reviewed By: IK, Mgr Regulatory Affairs

This MSDS complies with OSHA guidelines set by 29 CFR 1910.1200 and the Canadian WHMIS regulations. The foregoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to insure that their personnel have been notified of any changes which may affect them. The data provided on this MSDS are not meant to be used as specifications, only as guideline information as to the safe use of this product. User should refer to applicable laws before use.

N/D = Not Determined N/E = Not Established N/A = Not Applicable

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