



Safety Data Sheet

1 - Identification

Product Name: 2000 Flushes Chlorine	Manufacturer: WD-40 Company
Product Use: Toilet Bowl Cleaner and Deodorizer	Address: 9715 Businesspark Avenue San Diego, California, USA 92131
Restrictions on Use: None identified	Telephone:
SDS Date Of Preparation: July 18, 2018	Emergency: 1-888-324-7596
	Information: 1-888-324-7596
	Chemical Spills: 1-800-424-9300 (Chemtrec) 1-703-527-3887 (International Calls)

2 – Hazards Identification

Hazcom 2012/GHS Classification:

Oxidizing Solids Category 3
 Acute Toxicity Category 4 (Oral)
 Eye Damage Category 1
 Skin Corrosion Category 1C
 Skin Sensitization Category 1

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Label Elements:



DANGER!

May intensify fire; oxidizer
 Harmful if swallowed.
 Causes severe skin burns and eye damage.
 May cause an allergic skin reaction.

Prevention

Keep away from heat.
 Keep or Store away from clothing and combustible materials.
 Take any precaution to avoid mixing with combustibles.
 Do not breathe dusts or mists.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves, protective clothing, eye protection, and face protection.

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 Immediately call a POISON CENTER or doctor.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately call a POISON CENTER or doctor.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
 In case of fire: Use water or foam to extinguish.

Storage

Store locked up.

Disposal

Dispose of contents and container in accordance with local and national regulations.

1.8% of the mixture consists of ingredients of unknown acute toxicity.

3 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent	US Hazcom 2012/ GHS Classification
1,3-Dichloro-5,5-dimethylhydantoin	118-52-5	40-50%	Oxidizing Solid Category 3 Acute Toxicity Category 4 (Oral) Skin Corrosion Category 1C Skin Sensitization Category 1
1,3-Dichloro-5-ethyl-5-methylhydantoin	89415-87-2	5-15%	Oxidizing Solid Category 3 Acute Toxicity Category 4 (Oral) Skin Corrosion Category 1C
Non-Hazardous Ingredients	Mixture	40-50%	Not Hazardous

Note: The specific chemical identity and exact percentages are a trade secret.

4 – First Aid Measures

Ingestion (Swallowed): Rinse out mouth and give sips of water if the person is able to swallow and is alert. 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 thoroughly with water. Remove contact lenses, if present, after the first 5 minutes 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. Get immediate 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.

Signs and Symptoms of Exposure: 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 an allergic skin reaction (sensitization).

Indication of Immediate Medical Attention/Special Treatment Needed: Immediate medical attention is needed for all routes of contact. Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

5 – Fire Fighting Measures

Suitable (and unsuitable) Extinguishing Media: Flood with water or foam. Do not use dry chemicals, carbon dioxide or halogenated extinguishing agents.

Specific Hazards Arising from the Chemical: 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.

Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing.

6 – Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Eliminate all sources of ignition and ventilate area. Wear appropriate protective clothing (see Section 8).

Methods and Materials for Containment/Cleanup: 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. Large amounts should be carefully collected into a plastic container for disposal.

7 – Handling and Storage

Precautions for Safe Handling: Do not touch tablet. Avoid breathing dust from product. Do not get in eyes, on skin or clothing. Wear rubber gloves when handling. Wash thoroughly after use. DO NOT mix with anything other than water. Keep Bleach Tablets away from flammable and combustible materials. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Keep out of the reach of children.

Conditions for Safe Storage: Store in original container in areas inaccessible to children in a cool, dry, well-ventilated area. Do not store at elevated temperatures. Avoid heat and direct sunlight.

8 – Exposure Controls/Personal Protection

Chemical	Occupational Exposure Limits
1,3-Dichloro-5,5-dimethylhydantoin	0.2 mg/m ³ TWA, 0.4 mg/m ³ STEL ACGIH TLV 0.2 mg/m ³ TWA OSHA PEL
1,3-Dichloro-5-ethyl-5-methylhydantoin	0.2 mg/m ³ TWA (Manufacturer Recommended)
Non-Hazardous Ingredients	None Established

The Following Controls are Recommended for Normal Consumer Use of this Product

Appropriate 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

Appropriate 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. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

Work/Hygiene Practices: Prevent contact with the eyes, skin and clothing. Wash thoroughly after handling.

9 – Physical and Chemical Properties

Appearance:	Off-white tablet	Flammable Limits:	Not Applicable
Odor:	Very slight, pungent odor.	Vapor Pressure:	Not Applicable
Odor Threshold:	Not established	Vapor Density:	Not Applicable
pH:	3.6 (1% solution)	Relative Density:	Not established
Melting/Freezing Point:	Not established	Solubilities:	Soluble in water (0.56 g/100g @ 25°C)
Boiling Point/Range:	Not Applicable	Partition Coefficient; n-octanol/water:	Not established

Flash Point:	None	Autoignition Temperature:	Not established
Evaporation Rate:	<1 (butyl acetate=1)	Decomposition Temperature:	Not established
Flammability (solid, gas):	Not established	Viscosity:	Not Applicable
VOC:	Not Applicable	Pour Point:	Not Applicable

10 – Stability and Reactivity

Reactivity: Not reactive under normal conditions

Chemical Stability: Stable

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Avoid high temperatures and direct sunlight.

Incompatible Materials: Acids, bases, moisture, reducing agents, readily utilizable materials including flammable and combustible materials.

Hazardous Decomposition Products: Thermal decomposition of Bleach Tablets may generate noxious gases including chlorine, nitrogen oxides, carbon oxides, organic materials.

11 – Toxicological Information

Symptoms of Overexposure:

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.

Skin Contact: Bleach Tablets are corrosive. Direct contact with bleach tablet may cause severe irritation and possible burns. Repeated skin contact may result in sensitization with swelling and rash.

Eye Contact: Bleach Tablets are corrosive. Direct contact will cause severe irritation, pain, burns and possible permanent eye damage.

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.

Chronic Effects: None currently known.

Carcinogen Status: None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.

Reproductive Toxicity: None of the components are considered a reproductive hazard.

Numerical Measures of Toxicity:

1,3-Dichloro-5,5-dimethylhydantoin: Oral rat LD50- 618 mg/kg, Dermal rabbit LD50- >20 g/kg; Eye irritation (rabbit) - severe, Skin irritation (rabbit) - corrosive, Buehler test (guinea pig) - sensitizing.

1,3-Dichloro-5-ethyl-5-methylhydantoin: Oral rat LD50- 579 mg/kg; Skin irritation (rabbit) - corrosive.

12 – Ecological Information

Ecotoxicity:

1,3-Dichloro-5,5-dimethylhydantoin: 96 hr LC50 Rainbow trout- 1.10 mg/L, 48 hr EC50 Daphnia magna- 0.95 mg/L

1,3-Dichloro-5-ethyl-5-methylhydantoin: 96 hr LC50 Rainbow trout- 1.10 mg/L, 96 hr LC50 Bluegill sunfish- 0.87 mg/L, 48 hr EC50 Daphnia magna- 0.95 mg/L, 72 hr EbC50 Green algae- 0.12 mg/L.

Concentrated material is very toxic to aquatic organisms. Diluted product in use is not expected to present a hazard to the environment.

Persistence and Degradability: No data available

Bioaccumulative Potential: Bioaccumulation is not expected based on an assessment of the ingredients.

Mobility in Soil: No data available

Other Adverse Effects: None known

13 - Disposal Considerations

Discard empty container in trash. If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Dispose in accordance with federal, state, and local regulations.

14 – Transportation Information

DOT Surface Shipping Description: UN3085, Oxidizing Solid, Corrosive, N.O.S. (1,3-dichloro-5,5-dimethylimidazolidine-2,4-dione), 5.1 (8), III, Ltd Qty
Canadian TDG Shipping Description: Consumer Commodity (Limited Quantity)
IMDG Shipping Description: UN3085, OXIDIZING SOLID, CORROSIVE, N.O.S. (1,3-DICHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE), 5.1 (8), III
ICAO Shipping Description: UN3085, OXIDIZING SOLID, CORROSIVE, N.O.S. (1,3-DICHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE), 5.1 (8), III

*Note: Inner packages with less than 5 liters of liquid/ 5 kg of solid are exempt from Marine Pollutant per IMDG Code 2.10.2.7 and ICAO Special Provision A197.

NOTE: WD-40 Company does not test containers to assure that they meet the requirements for transport by air. We do not recommend that our products be transported by air.

15 – 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 ingredients for this product are listed on the TSCA inventory or exempt from notification.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): This product does not require a California Proposition 65 warning.

VOC Regulations: This product complies with the consumer product VOC limits of CARB, the US EPA and states adopting the OTC VOC rules.

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

16 – Other Information

HMIS Hazard Rating:

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

Revision Date: July 18, 2018

Supersedes: March 7, 2016

Revision Summary: Address and telephone number update in Section 1.

Prepared by: Industrial Health & Safety Consultants, Inc. Shelton, CT, USA

Reviewed By: I. Kowalski

Regulatory Affairs

1076000/No.0168001