



# SAFETY DATA SHEET KABOOM SCRUB FREE

Revision Number 1, Revision Date February 07, 2008

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product code** MSDS-154  
**Product name** KABOOM SCRUB FREE  
**Synonyms**  
 Continuous Toilet Bowl Cleaner.  
**Manufacturer, importer, supplier** Church & Dwight Co., Inc.  
 469 North Harrison Street  
 Princeton, NJ, 08543  
**EMERGENCY TELEPHONE NUMBER** Product Information +1-800-781-7529  
 CHEMTREC +1-800-424-9300  
 Medical Emergency 1-888-234-1828

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% Weight	OSHA*	ACGIH*	ACGIH*
126-06-7	3-Bromo-1-chloro-5,5-dimethyl-2,4-imidazolidinedione	20- 40%	N/A	N/A	N/A
16079-88-2	2,4-Imidazolidinedione, 1-bromo-3-chloro-5,5-dimethyl-	20 - 40%	N/A	N/A	N/A
118-52-5	1,3-Dichloro-5,5-dimethyl hydantoin	20 - 40%	0.2 mg/m3 TWA	0.4 mg/m3 STEL	0.2 mg/m3 TWA
89415-87-2	2,4-Imidazolidinedione, 1,3-dichloro-5-ethyl-5-methyl-	5 -15%	N/A	N/A	N/A

\* OSHA - Final PELs - Time Weighted Averages (TWAs)

\* ACGIH - Occupational Exposure Limits - STELs

\* ACGIH - Occupational Exposure Limits - TWAs

## 2. HAZARDOUS INFORMATION

### Emergency Overview:

- The product may cause burns of eyes and mucous membranes
- May be harmful by inhalation
- Based upon available toxicity information for this, and closely related materials, it is anticipated that this material will be harmful if swallowed and direct skin and eye contact can result in severe skin and eye irritation and/or chemical burns with potential irreversible damage. Inhalation of dust can be severely irritating to the lungs with potential systemic absorption and tissue damage. Repeated skin exposure may induce sensitization.

<b>Eye contact</b>	<ul style="list-style-type: none"> <li>• May cause severe eye irritation.</li> <li>• Corrosive to the eyes and may cause severe damage including blindness</li> <li>• Risk of serious damage to eyes</li> </ul>
<b>Skin contact</b>	<ul style="list-style-type: none"> <li>• Causes skin burns</li> </ul>
<b>Inhalation:</b>	<ul style="list-style-type: none"> <li>• May be harmful by inhalation</li> </ul>
<b>Ingestion:</b>	<ul style="list-style-type: none"> <li>• Ingestion causes burns of the upper digestive and respiratory tracts</li> <li>• Can burn mouth, throat, and stomach</li> <li>• Harmful if swallowed</li> </ul>
<b>General advice</b>	<ul style="list-style-type: none"> <li>• See First Aid section</li> </ul>
<b>Properties affecting health</b>	<ul style="list-style-type: none"> <li>• No effects indicated</li> </ul>
<b>Principle Routes of Exposure</b>	<ul style="list-style-type: none"> <li>• Eye</li> <li>• Inhalation</li> <li>• Skin</li> </ul>

## 4. FIRST AID MEASURES



# SAFETY DATA SHEET KABOOM SCRUB FREE

Revision Number 1, Revision Date February 07, 2008

<b>General advice</b>	<ul style="list-style-type: none"> <li>• Show this safety data sheet to the doctor in attendance</li> </ul>
<b>Skin contact</b>	<ul style="list-style-type: none"> <li>• Immediate medical attention is required</li> <li>• Wash skin with plenty of water for 15 minutes, removing all contaminated clothes and shoes.</li> </ul>
<b>Eye contact</b>	<ul style="list-style-type: none"> <li>• Immediate medical attention is required</li> <li>• In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes</li> <li>• Keep eye wide open while rinsing</li> <li>• If physician is not available, flush for additional 15 minutes and transport victim to medical care.</li> </ul>
<b>Inhalation:</b>	<ul style="list-style-type: none"> <li>• Immediate medical attention is required</li> <li>• If not breathing, give artificial respiration</li> <li>• If breathing is difficult, give oxygen</li> <li>• Move to fresh air</li> </ul>
<b>Ingestion:</b>	<ul style="list-style-type: none"> <li>• If swallowed, immediately give 3-4 glasses of water.</li> <li>• Do not induce vomiting</li> <li>• If vomiting occurs, give fluids again.</li> <li>• Immediate medical attention is required</li> <li>• Never give anything by mouth to an unconscious person</li> <li>• Have physician determine if condition allows induction of vomiting or evacuation of stomach.</li> </ul>
<b>Aggravated Medical Conditions</b>	<ul style="list-style-type: none"> <li>• No effects indicated</li> </ul>

## 5. FIRE-FIGHTING MEASURES

<b>Flash point</b>	>200 F (COC)
<b>Suitable extinguishing media</b>	<ul style="list-style-type: none"> <li>• water spray</li> <li>• alcohol-resistant foam</li> <li>• dry chemical</li> </ul>
<b>Extinguishing media which must not be used for safety reasons</b>	<ul style="list-style-type: none"> <li>• Unknown</li> </ul>
<b>Specific hazards</b>	<ul style="list-style-type: none"> <li>• To minimize noxious gas generation, flood burning material with large quantities of water.</li> <li>• Cool fire exposed containers with water spray.</li> <li>• Must wear NIOSH approved self-contained breathing apparatus and protective clothing</li> </ul>
<b>Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases</b>	<ul style="list-style-type: none"> <li>• Material is a strong oxidizer and corrosive. May ignite combustible materials and produce noxious gases. Products of combustion are toxic.</li> </ul> <p>This product is classified as a ST-1 dust explosive hazard. Airborne dusts of this material, in an enclosed space and in the presence of an ignition source may constitute an explosion hazard.</p>
<b>Special protective equipment for firefighters</b>	<ul style="list-style-type: none"> <li>• As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear</li> </ul>
<b>Specific methods</b>	<ul style="list-style-type: none"> <li>• Cool containers / tanks with water spray</li> <li>• Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations</li> </ul>
<b>NFPA (National Fire Protection Association)</b>	<ul style="list-style-type: none"> <li>• Unknown</li> </ul>
<b>HMIS (Hazardous Material Information System)</b>	<ul style="list-style-type: none"> <li>• Health = 3 ; Fire = 4, Reactivity = 1</li> </ul>



# SAFETY DATA SHEET KABOOM SCRUB FREE

Revision Number 1, Revision Date February 07, 2008

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	<ul style="list-style-type: none"> <li>● Danger! Oxidizing material.</li> <li>● Do not breath dust, do not get in eyes or on skin, do not swallow.</li> <li>● Evacuate personnel to safe areas</li> <li>● Ensure adequate ventilation</li> <li>● Keep people away from and upwind of spill/leak</li> <li>● Use personal protective equipment</li> </ul>
<b>Environmental precautions</b>	<ul style="list-style-type: none"> <li>● Material is toxic to fish.</li> <li>● Do not discharge into lakes, stream, ponds or public water unless in accordance with an NPDES permit.</li> </ul>
<b>Methods for cleaning up</b>	<ul style="list-style-type: none"> <li>● Take up mechanically, avoiding generation of dust, and collect in suitable container for disposal</li> <li>● Do not breath dust, do not get in eyes or on skin, do not swallow.</li> <li>● Wear personal protective equipment</li> <li>● For large spills or in contact with water, self-contained breathing apparatus is preferred.</li> <li>● Danger! Oxidizing material</li> <li>● Possible dust explosion hazard.</li> <li>● Neutralize any resdiue with dilute alkaline sodium bisulfite or thiosulfate solution.</li> <li>● Absorb with sand or vermiculite and place in compatible container for disposal.</li> </ul>

## 7. HANDLING AND STORAGE

### Handling

<b>Technical measures/Precautions</b>	<ul style="list-style-type: none"> <li>● Avoid contact with skin, eyes and clothing</li> <li>● Do not breath dust, do not get in eyes or on skin, do not swallow.</li> <li>● Ensure adequate ventilation</li> </ul>
<b>Safe handling advice</b>	<ul style="list-style-type: none"> <li>● Avoid contact with skin and eyes and clothing</li> <li>● In case of insufficient ventilation, wear suitable NIOSH respiratory equipment</li> <li>● Avoid contact with eyes. Wash hands immediately after contact to avoid hand-eye transfer.</li> <li>● Do not breath dust, do not get in eyes or on skin, do not swallow.</li> <li>● Fine dust dispersed in air may ignite</li> </ul>

### Storage

<b>Technical measures/Precautions</b>	<ul style="list-style-type: none"> <li>● Keep containers tightly closed in a dry, cool and well-ventilated place</li> <li>● Keep in properly labelled containers</li> <li>● Store away from organic material. product is a strong oxizer and corrosive.</li> <li>● Keep away from direct sunlight</li> <li>● Keep away from heat</li> <li>● Empty containers may contain residue and can be dangerous.</li> </ul>
<b>Incompatible products</b>	<ul style="list-style-type: none"> <li>● Oxidizable materials</li> </ul>
<b>Specific use(s)</b>	<ul style="list-style-type: none"> <li>● Toilet Cleaner</li> </ul>

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering measures</b>	<ul style="list-style-type: none"> <li>● Ensure adequate ventilation, especially in confined areas</li> </ul>
<b>Personal protective equipment</b>	
<b>Hand protection</b>	<ul style="list-style-type: none"> <li>● Rubber or neoprene gloves</li> </ul>
<b>Eye protection</b>	<ul style="list-style-type: none"> <li>● Tightly fitting safety goggles in tight areas or where exposure to eyes is likely.</li> </ul>



# SAFETY DATA SHEET KABOOM SCRUB FREE

Revision Number 1, Revision Date February 07, 2008

<b>Respiratory protection</b>	<ul style="list-style-type: none"> <li>• Avoid contact with eyes</li> <li>• In case of insufficient ventilation, wear suitable NIOSH respiratory equipment</li> </ul>
<b>Skin and body protection</b>	<ul style="list-style-type: none"> <li>• Use chemical protective clothing for prolonged or repeated contact.</li> <li>• Long sleeved clothing - gloves - boots - apron</li> </ul>
<b>Hygiene measures</b>	<ul style="list-style-type: none"> <li>• Keep away from food, drink and animal feeding stuffs</li> <li>• When using, do not eat, drink or smoke</li> <li>• Contaminated work clothing should not be allowed out of the workplace</li> <li>• Regular cleaning of equipment, work area and clothing</li> <li>• Avoid contact with skin, eyes and clothing</li> <li>• For environmental protection remove and wash all contaminated protective equipment before re-use</li> <li>• Wear suitable gloves and eye/face protection</li> </ul>
<b>Environmental exposure controls</b>	<ul style="list-style-type: none"> <li>• Do not breath dust, do not get in eyes or on skin, do not swallow.</li> </ul>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

<b>Form</b>	Granular. Pellets.
<b>Appearance</b>	Solid.
<b>Colour</b>	White.
<b>Odour</b>	Chlorine like chemical.

### Important Health Safety and Environmental Information

<b>pH</b>	Unknown
<b>Boiling point/range</b>	N/A
<b>Vapour pressure</b>	n/e.
<b>Density</b>	n/e
<b>Vapour density(Air =1)</b>	n/e.
<b>Water solubility</b>	5 g/l @ 25C.
<b>Specific Gravity</b>	n/e.
<b>Viscosity</b>	n/a
<b>Vapour pressure</b>	n/a
<b>Melting point/range</b>	106 to 148
<b>Evaporation Rate (Butyl Acetate=1)</b>	<1
<b>Percent Volatile (by volume)</b>	<0.5

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	<ul style="list-style-type: none"> <li>• Stable under normal conditions</li> <li>• Decomposes at 181C</li> </ul>
<b>Conditions to avoid</b>	<ul style="list-style-type: none"> <li>• None Known</li> </ul>
<b>Materials to avoid</b>	<ul style="list-style-type: none"> <li>• Incompatible with strong acids and bases</li> <li>• High temperatures</li> <li>• Readily oxidized materials</li> <li>• Moisture</li> </ul>
<b>Hazardous decomposition products</b>	<ul style="list-style-type: none"> <li>• Thermal decomposition may produce toxic vapors/fumes of Chlorine, bromine, organic materials and oxides of carbon and nitrogen.</li> </ul>
<b>Polymerization</b>	<ul style="list-style-type: none"> <li>• Will not occur</li> </ul>

## 11. TOXICOLOGICAL INFORMATION



# SAFETY DATA SHEET KABOOM SCRUB FREE

Revision Number 1, Revision Date February 07, 2008

## Acute toxicity

### Component Information

### Product Information

LD50/oral/rat =	468 - 477 mg/kg
Local effects	
Skin irritation	Corrosive
Eye irritation	Severe irritant and corrosive
Sensitization	Skin sensitizer.
Specific effects	Severely irritating to the lung upon inhalation with potential systemic absorption and tissue damage.
Carcinogenic Effects	Not determined.
Mutagenic Effects	Not determined.
Reproductive toxicity	Not determined.
Target Organ Effects	Not determined.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

### Component Information

CAS	Chemical Name	% Weight	EFFSD*
126-06-7	3-Bromo-1-chloro-5,5-dimethyl-2,4-imidazolidinedione	20- 40%	96 Hr LC50 rainbow trout: 0.87 mg/L;96 Hr LC50 fathead minnow (juvenile):0.28 mg/L;96 Hr LC50 bluegill: 0.56 mg/L
16079-88-2	2,4-Imidazolidinedione, 1-bromo-3-chloro-5,5-dimethyl-	20 - 40%	N/A
118-52-5	1,3-Dichloro-5,5-dimethyl hydantoin	20 - 40%	N/A
89415-87-2	2,4-Imidazolidinedione, 1,3-dichloro-5-ethyl-5-methyl-	5 -15%	N/A

\* EFFSD - Ecotoxicity - Freshwater Fish Species Data

### Product Information

### Aquatic toxicity

LC50 - (Rainbow Trout) -96 hours:0.5mg/l  
 (Bluegill Sunfish) - 96 hours:1.2mg/l  
 (Daphnia magna) - 48 hours:0.4mg/l  
 (Mysid shrimp) - 96 hours:0.93mg/l  
 (Sheepshead minnow) - 96 hours:1.4mg/l as Br2  
 EC50 - (Eastern Oysters) - 96 hours:0.84mg/l  
 (Algae-Selenastrum) - 72 hours: 0.12mg/l

### Other information:

## 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products	Dispose of in accordance with Federal, state and local regulations. Incineration is the preferred method. Relatively small quantities of product can be neutralized (see section 6) and, if in accordance with local laws and operators, discharged into sewage treatment systems and plants.
Contaminated packaging	Empty containers should be taken for local recycling, recovery or waste disposal.
Further information	

## 14. TRANSPORT INFORMATION



# SAFETY DATA SHEET KABOOM SCRUB FREE

Revision Number 1, Revision Date February 07, 2008

<b>DOT</b>	Oxidizer
<b>UN-No</b>	1479
<b>Proper shipping name</b>	Oxidizing Solid N.O.S.
<b>Packing group</b>	II
<b>Description</b>	CorrosiveMarine Pollutant
<b>Hazard Class</b>	5.1
<b>IMDG</b>	Oxidizing Solid, Corrosive, N.O.S. (UN# - 3085)
<b>ADR</b>	Oxidizer
<b>UN-No</b>	1479
<b>Proper shipping name</b>	Oxidizing Solid N.O.S.
<b>Packing group</b>	II
<b>Subsidiary Risk</b>	5.1
<b>Description</b>	CorrosiveMarine Pollutant
<b>ICAO</b>	Oxidizer
<b>UN-No</b>	1479
<b>Proper shipping name</b>	Oxidizing Solid N.O.S.
<b>Packing group</b>	II
<b>Subsidiary Risk</b>	5.1
<b>Description</b>	CorrosiveMarine Pollutant
<b>IATA</b>	Oxidizer
<b>UN-No</b>	1479
<b>Proper shipping name</b>	Oxidizing Solid N.O.S.
<b>Packing group</b>	II
<b>Subsidiary Risk</b>	5.1
<b>Description</b>	CorrosiveMarine Pollutant

## 15. REGULATORY INFORMATION

### U.S. Inventories

CAS	Chemical Name	% Weight	TSCA*	SARA Title III, Sections 311/312	NJRTK*	WHMIS*	WHMIS*	PRTK*
126-06-7	3-Bromo-1-chloro-5,5-dimethyl-2,4-imidazolidinedione	20- 40%	Present	A,F	N/A	N/A	N/A	N/A
16079-88-2	2,4-Imidazolidinedione, 1-bromo-3-chloro-5,5-dimethyl-	20 - 40%	P; S	A,F	N/A	N/A	N/A	N/A
118-52-5	1,3-Dichloro-5,5-dimethyl hydantoin	20 - 40%	Present	A,F	sn 0650	D2B	1 % (English Item 544, French Item 663)	Present
89415-87-2	2,4-Imidazolidinedione, 1,3-dichloro-5-ethyl-5-methyl-	5 -15%	P	A,F	N/A	N/A	N/A	N/A

\* TSCA - United States - Section 8 (b) Inventory (TSCA)

\* NJRTK - New Jersey - Department of Health RTK List

\* WHMIS - Canada - WHMIS - Classifications of Substances

\* WHMIS - Canada - WHMIS - Ingredient Disclosure

\* PRTK - Pennsylvania - RTK (Right to Know) List

### International Inventories

6 of 7 n/e - Not Established

**SAFETY DATA SHEET KABOOM SCRUB FREE**

CAS	Chemical Name	% Weight	DSL - Canada*	WHMIS*
126-06-7	3-Bromo-1-chloro-5,5-dimethyl-2,4-imidazolidinedione	20- 40%	Present	N/A
16079-88-2	2,4-Imidazolidinedione, 1-bromo-3-chloro-5,5-dimethyl-	20 - 40%	Present	N/A
118-52-5	1,3-Dichloro-5,5-dimethyl hydantoin	20 - 40%	Present	D2B
89415-87-2	2,4-Imidazolidinedione, 1,3-dichloro-5-ethyl-5-methyl-	5 -15%	Present	N/A

\* DSL - Canada - Domestic Substances List (DSL)

\* WHMIS - Canada - WHMIS - Classifications of Substances

**16. OTHER INFORMATION****Literary reference****Prepared By**

Other

Household Cleaning Product.

R&amp;D Technical Regulatory Affairs-1-609-279-7705.

The information provided has been adapted from the manufacturer supplied MSDS. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, we assume no liability resulting from use of MSDS information.

End of Safety Data Sheet