



CHURCH & DWIGHT CO., INC.

CONSUMER PRODUCTS - SPECIALTY PRODUCTS

MATERIAL SAFETY DATA SHEET

Product Code(s) MSDS-157

Revision Date 14-Nov-2013

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1. PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|----------------------------|--|-------------------|--|
| Product Name | Kaboom Liquid Bowl Blaster | | |
| Product Code(s) | MSDS-157 | | |
| Recommended Use | Toilet cleaner. | | |
| Product Type | Mixture | | |
| Synonyms | Detergent | | |
| Manufactured by | Church & Dwight Co., Inc. 469 N. Harrison Street Princeton, NJ 08543 | | |
| Emergency Telephone Number | Poison Information Center Telephone Number | Telephone Inquiry | |
| 1-800-424-9300 | 1-888-234-1828 | 1-800-524-1328 | |

For further information, please also consult our Internet site www.churchdwight.com

2. HAZARDS IDENTIFICATION

Emergency Overview

Hazardous fumes will be generated if mixed with chlorine bleach, ammonia, or other household cleansers and chemicals

Can cause chemical burns to skin, eyes, and mucous membranes
Ingestion or inhalation can cause severe injury and possibly death

Appearance Clear, violet colored

Physical State Liquid

Odor Citrus

This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC). However, the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. Therefore, the requirements of the Occupational Safety and Health Administration applicable to this MSDS differ from the labeling requirements of the CPSC, and this MSDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

| | | | |
|------|-----------------|----------------|--------------|
| HMIS | Health Hazard 3 | Flammability 0 | Reactivity 0 |
|------|-----------------|----------------|--------------|

Potential Health Effects

Acute Toxicity

Eyes
Skin
Inhalation
Ingestion

Can cause burns with impairment or permanent loss of vision.
Can cause severe irritation and chemical burns.
Fumes can cause irritation with possible corrosive burns of the upper respiratory tract, pain and coughing, difficult breathing, headache, chemical, pneumonitis, and pulmonary edema.
Harmful if swallowed. May be fatal if swallowed. Can cause mucous membrane and circumoral burns, abdominal pain and discomfort, perforation of the esophagus and gastrointestinal tract, necrosis of the stomach, respiratory distress (secondary to epiglottal swelling), shock and renal failure.

Chronic Effects No known effect based on information supplied

Aggravated Medical Conditions None known

Environmental Hazard See Section 12 for additional Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|-------------------------|------------|----------|
| Water | 7732-18-5 | 80-85 |
| Hydrochloric acid | 7647-01-0 | 10-20 |
| Tallow Amine Ethoxylate | 61791-26-2 | 1-4 |

4. FIRST AID MEASURES

Eye Contact Immediately flush eyes with large amounts of clean, flowing water for at least 15 minutes, occasionally lifting upper and lower eyelids.. Flush eyes for 15 minutes or until no evidence of product remains. Immediate medical attention is required.

Inhalation Move victim to fresh air. Get medical attention if person has difficulty breathing. If breathing is irregular or stopped, administer artificial respiration.

Skin Contact Remove and wash contaminated clothing before re-use. Immediately flush affected areas with large amounts of water until no evidence of product remains. Get medical attention if irritation develops and persists.

Ingestion Get medical attention. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water and afterwards drink plenty of water or milk.

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable

Flash Point N/A

Flammability Limits in Air Not flammable

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Hazardous Combustion Products Hydrogen chloride.

Explosion Data

Sensitivity to Mechanical Impact Not sensitive

Sensitivity to Static Discharge Not sensitive

Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Thermal decomposition can lead to release of toxic and corrosive gases/vapors.

Protective Equipment and Precautions for Firefighters

Keep upwind and avoid breathing corrosive vapors. Thermal decomposition may release corrosive hydrogen chloride. Apply cooling water in flooding amounts and from as far a distance as possible to sides of containers that are exposed to flames until well after fire is out. Water should not be used directly on material, but water spray can be used to absorb corrosive vapors.. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health Hazard 3 **Flammability** 0 **Stability** 0 **Physical and Chemical Hazards** -

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Isolate spill area and deny entry to unauthorized persons. Wear proper protective equipment (see Section 8) to prevent exposure to the spilled material. Stop the source of the leak if you can do so without risk. Ensure adequate ventilation.

Methods for Containment

Dike to collect large liquid spills. Cover containers and remove from area for later disposal as regulations permit.

Methods for Cleaning Up

For all spills, neutralize with soda ash or lime. Take up with sand or other absorbent material and shovel into clean, dry containers. Cover containers and remove from area for later disposal as regulations permit. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Wear personal protective equipment.

Storage

Do not store in carbon steel or aluminum containers. Store in original container. Store in a cool, dry area away from incompatible materials. Keep in properly labeled containers. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--------------------------------|-----------|--|--|
| Hydrochloric acid 7647-01-0 | | (vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m ³ Ceiling: 5 ppm Ceiling: 7 mg/m ³ | IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m ³ |

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment

Eye/Face Protection

Avoid contact with eyes. Goggles recommended for handling bulk liquid and for cleaning up spills.. Eyewash facility is recommended for the work area or close proximity.

Skin and Body Protection

Chemical resistant gloves should be worn during occupational use conditions and for cleaning spills to prevent skin contact. Impervious clothing should be worn during occupational use conditions to prevent skin contact with this product.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-----------------------------------|--------------------------|---------------------------------|--------------------------|
| Appearance | Clear, violet colored | Odor | Citrus |
| Odor Threshold | No information available | Physical State | Liquid |
| pH | 1.0 | | |
| Flash Point | N/A | Autoignition Temperature | No information available |
| Decomposition Temperature | N/A | Boiling Point/Range | 93°C / 200°F |
| Melting Point/Range | NA | Freezing Point | NA |
| Flammability Limits in Air | Not flammable | Explosion Limits | Not applicable |
| Specific Gravity | 1.07 @ 15°C | Solubility | Completely soluble |
| Vapor Pressure | No data available | Vapor Density | No data available |
| VOC Content | Not applicable | | |

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Incompatible Products Incompatible with cyanides, sulfides, sulfites and formaldehyde. Highly reactive with strong bases, metals, metal oxides, hydroxides, amines, carbonates, and alkaline materials in general.

Conditions to Avoid DO NOT MIX with chlorine bleach, ammonia, or other household cleansers or chemicals. Do not use on chrome, countertops, bathtubs, washbowl, or other enamel surfaces.

Hazardous Decomposition Products Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Hydrogen chloride.

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity****Product Information**

The acute health effects described below are those, which could potentially occur for the finished product. They are based on the toxicology information available for the finished product and/or each hazardous ingredient.

EYE: May cause burns with impairment or permanent loss of vision. Symptoms may include pain, tearing and photophobia

SKIN: May cause irritation and chemical burns

INHALATION: Fumes may cause irritation with possible burn of the mucous membranes of the upper respiratory tract, conjunctivitis, bronchitis, immediate pain and coughing, choking, headache, dizziness, weakness, chemical pneumonitis, and pulmonary edema

INGESTION : May cause mucous membrane and circumoral burns, excessive drooling, difficulty in swallowing, pain upon swallowing, vomiting of blood, abdominal pain, perforation of the esophagus and gastrointestinal tract, necrosis of the stomach, respiratory distress (secondary to epiglottal swelling), shock, renal failure and death

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|------------------------|-------------------|-----------------------|------------------------|
| Water | 90 mL/kg (Rat) | | |
| Hydrochloric acid | 700 mg/kg (Rat) | 5010 mg/kg (Rabbit) | 3124 ppm (Rat) 1 h |
| Tallow Amine Ethoxyate | 620 mg/kg (Rat) | 10 g/kg (Rat) | |

Chronic Toxicity**Target Organ Effects**

None known.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

The environmental impact of this product has not been fully investigated

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Microtox | Daphnia Magna (Water Flea) |
|-------------------|-------------------|--------------------------------------|----------|----------------------------|
| Hydrochloric acid | | LC50= 282 mg/L Gambusia affinis 96 h | | |

Persistence and Degradability

Product is biodegradable

Bioaccumulation/Accumulation

Not likely to bioaccumulate

13. DISPOSAL CONSIDERATIONS**Waste Disposal Method**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements

Contaminated Packaging

Dispose of in accordance with local regulations

| Chemical Name | California Hazardous Waste Status |
|-------------------|---|
| Hydrochloric acid | Corrosive Reactive Toxic Corrosive |

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Hydrochloric acid (Mixture)
Hazard Class 8
UN-No UN1789
Packing Group III

TDG

Proper Shipping Name Hydrochloric acid (Mixture)
Hazard Class 8
UN-No UN1789
Packing Group III

ICAO

UN-No UN1789
Hazard Class 8
Packing Group III

IATA

UN-No UN1789
Proper Shipping Name Hydrochloric acid (Mixture)
Hazard Class 8
Packing Group III
ERG Code 8L
Max Qty for Passenger 5 L
Max Qty for Cargo 60 L
LQ 1 L

IMDG/IMO

Proper Shipping Name Hydrochloric acid (Mixture)
Hazard Class 8
UN-No UN1789
Packing Group III
EmS No. F-A, S-B

RID

Proper Shipping Name Hydrochloric acid (Mixture)
Hazard Class 8
UN-No UN1789
Packing Group III
Classification Code C1

ADR

Proper Shipping Name Hydrochloric acid (Mixture)
Hazard Class 8
UN-No UN1789
Packing Group III
Classification Code C1

ADN

Proper Shipping Name Hydrochloric acid (Mixture)
Hazard Class 8
UN-No UN1789
Packing Group III

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Classification Code C1
Special Provisions 520
Hazard Labels 8
Limited Quantity LQ7

15. REGULATORY INFORMATION

International Inventories

| Chemical Name | TSCA | DSL | EIN/ELN | ENCS | IECSC | KECL | PICCS | AICS |
|-------------------------|---------|-----|---------|--------|-------|---------------|-------|------|
| Water | Present | X | X | - | X | KE-35400 | X | - |
| Hydrochloric acid | T | X | X | X | X | KE-20189 X | X | X |
| Tallow Amine Ethoxylate | XU | X | X | (7)-60 | X | - | X | X |

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS-No | Weight % | SARA 313 - Threshold Values % |
|-------------------|-----------|----------|-------------------------------|
| Hydrochloric acid | 7647-01-0 | 10-20 | 1.0 |

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Sudden Release of Pressure Hazard No
Fire Hazard No
Reactive Hazard No

Clean Water Act

This product contains the following substances which are regulated pollutant's pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Hydrochloric acid | 5000 lb | | | X |

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act:

| Chemical Name | CAS-No | Weight % | HAPS data | VOC Chemicals | Class 1 Ozone Depleters | Class 2 Ozone Depleters |
|-------------------|-----------|----------|-----------|---------------|-------------------------|-------------------------|
| Hydrochloric acid | 7647-01-0 | 10-20 | Present | | | |

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|-------------------|--------------------------|------------------------------------|
| Hydrochloric acid | 5000 lb | 5000 lb |

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U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-------------------|---------------|------------|--------------|----------|--------------|
| Hydrochloric acid | X | X | X | X | X |

International Regulations

Mexico - Grade

No information available.

| Chemical Name | Carcinogen Status | Exposure Limits |
|-------------------|-------------------|--|
| Hydrochloric acid | | Mexico: Ceiling= 5 ppm Mexico: Ceiling= 7 mg/m ³ |

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

Prepared By

Church & Dwight Co. Inc.
Product Stewardship
469 North Harrison Street
Princeton, New Jersey 08543
609.279.7705

Revision Date

14-Nov-2013

Reason for Revision

No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS