Safety Data Sheet

SECTION 1: Identification

1.1 Product identifier
Product name: Blast HD Chlorinated Dish Machine Detergent
Product number: 133
Brand: Crown Chemical, Inc.

1.2 Other means of identification
Blast HD Chlorinated Dish Machine Detergent

1.3 Recommended use of the chemical and restrictions on use
Machine Dishwashing

1.4 Supplier’s details
Name: Crown Chemical, Inc.
Address: 4701 W. 136th St.
Crestwood, Illinois 60418
U.S.A.
Telephone: 708-371-6990
Fax: 708-371-6992
email: info@crown-chem.com

1.5 Emergency phone number(s)
800-535-5053

SECTION 2: Hazard identification

General hazard statement
Causes serious eye damage; Causes severe skin burns and eye damage; Harmful if swallowed

2.1 Classification of the substance or mixture
GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)
- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1A
- Acute toxicity, oral, Cat. 4

2.2 GHS label elements, including precautionary statements
Pictogram

Signal word
Danger

Hazard statement(s)
H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
**Precautionary statement(s)**

P260  Do not breathe dust/fume/gas/mist/vapors/spray.
P264  Wash hands & skin thoroughly after handling.
P270  Do not eat, drink or smoke when using this product.
P280  Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312  IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P301+P330+P331  IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P353+P355  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310  Immediately call a POISON CENTER/doctor for treatment advice.
P330  Rinse mouth.
P363  Wash contaminated clothing before reuse.
P405  Store locked up.
P501  Dispose of contents and container in accordance with all local, state, national and international regulations.

2.3  Other hazards which do not result in classification

None identified

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Components**

1. **Potassium hydroxide**
   - Concentration: 10 - 30 % (By Weight)
   - EC no.: 215-181-3
   - CAS no.: 1310-58-3
   - Index no.: 019-002-00-8
   - Skin corrosion/irritation, Cat. 1A
   - Acute toxicity, oral, Cat. 4
   - H302: Harmful if swallowed
   - H314: Causes severe skin burns and eye damage

2. **Sodium hypochlorite solution (10-13% Cl2)**
   - Concentration: 10 - 30 % (By Weight)
   - EC no.: 231-668-3
   - CAS no.: 7681-52-9
   - Index no.: 017-011-00-1
   - Skin corrosion/irritation, Cat. 1B
   - Hazardous to the aquatic environment, short-term (acute), Cat. 1
   - H314: Causes severe skin burns and eye damage
   - H400: Very toxic to aquatic life

**Trade secret statement (OSHA 1910.1200(i))**

The specific chemical identities and/or actual concentrations for one or more components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).
SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled
Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

In case of skin contact
Take off immediately all contaminated clothing. Rinse skin with water/shower for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Wash contaminated clothing before reuse.

In case of eye contact
Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

If swallowed
Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.

Personal protective equipment for first-aid responders
Remove all persons from the vicinity. No responsive action should be taken without proper training.

4.2 Most important symptoms/effects, acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

4.3 Indication of immediate medical attention and special treatment needed, if necessary
Treat exposure symptomatically. In all cases of eye contact, ingestion, or inhalation, contact a doctor or Poison Control Center immediately.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical
None known

5.3 Special protective actions for fire-fighters
Avoid any skin contact. Effects of contact or inhalation may be delayed. Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters’ protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

Further information
Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Initiate spill containment procedures immediately using containment or absorption methods. Keep people away from area. Put on appropriate protective equipment (see Section 8).
6.2 **Environmental precautions**
Do not let product enter drains.

6.3 **Methods and materials for containment and cleaning up**
Do not allow spilled material to enter sewers, waterways or soil. Neutralize with water. Mop, sweep or otherwise collect spilled material and hold for disposal. Consult local government authorities for allowable disposal methods. After removal, rinse area completely with water to remove residue.

**Reference to other sections**
For disposal see section 13.

SECTION 7: Handling and storage

7.1 **Precautions for safe handling**
Do not swallow. Do not breathe mist, vapors, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. See Section 8 for information on Personal Protective Equipment.

7.2 **Conditions for safe storage, including any incompatibilities**
Store locked up. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

**Specific end use(s)**
Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

   PEL-C (Inhalation): 2 mg/m3; USA (ACGIH)
   Upper Respiratory Tract irritation, Eye irritation, Skin irritation

2. **Sodium hypochlorite solution (10-13% Cl2) (CAS: 7681-52-9 EC: 231-668-3)**

8.2 **Appropriate engineering controls**
Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

8.3 **Individual protection measures, such as personal protective equipment (PPE)**

**Pictograms**

Eye/face protection
Wear chemical splash goggles or face shield when using this product.

Skin protection
Wear protective rubber gloves, a long sleeve shirt and, if necessary, a rubber apron to prevent contact.

Body protection
Wear protective clothing. Clothing with full length sleeves and pants should be worn. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Wear a NIOSH respirator approved for corrosive dusts or mists.
Thermal hazards
No data available.

Environmental exposure controls
Do not let product enter drains.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/form (physical state, color, etc.)</td>
<td>Yellow Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Chlorine</td>
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<tr>
<td>Odor threshold</td>
<td>No data available.</td>
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<tr>
<td>pH</td>
<td>&gt;11.5 (1% solution)</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>&gt;45°F</td>
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<tr>
<td>Initial boiling point and boiling range</td>
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<tr>
<td>Flash point</td>
<td>Non-Combustible</td>
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<tr>
<td>Evaporation rate</td>
<td>No data available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available.</td>
</tr>
<tr>
<td>Upper/lower flammability limits</td>
<td>No data available.</td>
</tr>
<tr>
<td>Upper/lower explosive limits</td>
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<tr>
<td>Vapor pressure</td>
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<tr>
<td>Vapor density</td>
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</tr>
<tr>
<td>Relative density</td>
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<tr>
<td>Solubility(ies)</td>
<td>100% in 120°F Water</td>
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<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available.</td>
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<tr>
<td>Auto-ignition temperature</td>
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<tr>
<td>Decomposition temperature</td>
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<tr>
<td>Viscosity</td>
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<tr>
<td>Explosive properties</td>
<td>No data available.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

10.1 Reactivity
Product may react when diluted with water to produce heat up to boiling temperature. Product is highly reactive with acids. Reactions may produce hazardous conditions, including violent splattering of corrosive materials. NEVER mix this product with other chemicals. Mix this product ONLY with water.

10.2 Chemical stability
Product is stable under normal storage and usage conditions.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
Heat, flames and sparks. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials
Acid, metals.

10.6 Hazardous decomposition products
None are expected under normal storage and usage conditions.
SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Skin corrosion/irritation
Irritation, pain, redness, blistering.

Serious eye damage/irritation
Irritation, pain, redness, watering.

Respiratory or skin sensitization
Coughing, choking, respiratory tract irritation, breathing difficulty.

Germ cell mutagenicity
No data available.

Carcinogenicity
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH,NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available.

Summary of evaluation of the CMR properties
No known significant effects or critical hazards.

STOT-single exposure
No data available.

STOT-repeated exposure
No data available.

Aspiration hazard
No data available.

Additional information
No data available.

SECTION 12: Ecological information

Toxicity
No specific data available for this mixture. Potassium Hydroxide and Sodium Hypochlorite are known to be toxic to aquatic life.

Persistence and degradability
No data available on product
Bioaccumulative potential
No data available on product

Mobility in soil
No data available.

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects
No known significant effects or critical hazards.

SECTION 13: Disposal considerations

Disposal of the product
Avoid disposal of this product. Use complete contents according to directions. Do not release contents into a municipal sewer except through normal dilution and usage. Do not release contents onto the ground or into any body of water. Dispose of empty container by offering for recycling if available, or into a landfill. Follow all applicable state and local regulations.

Disposal of contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
UN Number: NA 1760
Class: 8
Packing Group: II
Proper Shipping Name: NA 1760, Compounds, Cleaning Liquid, 8, PG II (Contains Potassium Hydroxide)
Reportable quantity (RQ): Potassium Hydroxide, Sodium Hypochlorite

Note: Certain package sizes of this product may qualify for exceptions to DOT's packaging, labeling and other requirements, and thus may have different DOT shipping names. For bulk shipments, see the shipping documents.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components
No components are subject to the Pennsylvania Right To Know Act.

New Jersey Right To Know Components
No components are subject to the New Jersey Right To Know Act.
California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts Right To Know Components
Potassium hydroxide
CAS-No. 1310-58-3

New Jersey Right To Know Components
Potassium hydroxide
CAS-No. 1310-58-3

Pennsylvania Right To Know Components
Potassium hydroxide
CAS-No. 1310-58-3

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know Components
Chemical name: Sodium hypochlorite
CAS number: 7681-52-9

New Jersey Right To Know Components
Common name: SODIUM HYPOCHLORITE
CAS number: 7681-52-9

Pennsylvania Right To Know Components
Chemical name: Hypochlorous acid, sodium salt
CAS number: 7681-52-9

SECTION 16: Other information

The information herein is believed to be correct, but is given without warranty or guaranty of any kind, express or implied. The hazards provided in this Safety Data Sheet apply to the product in its concentrated form, and may differ significantly after dilution.

16.1 Further information/disclaimer
DISCLAIMER: 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, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Crown Chemical, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Crown Chemical, Inc. has been advised of the possibility of such damages.