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# SAFETY DATA SHEET

Issue Date: 26 October 2015

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Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

Product Name: **BUG BUSTER**

Product Description: **CLEANER & BUG REMOVER**

### Other Means of Identification

Product # 033  
Synonyms None

### Details of the Supplier of the Safety Data Sheet

Company Name CHEMCO INDUSTRIES, INC.  
5731 Manchester Avenue  
St. Louis, MO 63110  
www.chemcoindustries.com  
314-647-1888  
1-800-854-4236 (to Reorder)

### Emergency Telephone Number

Emergency Telephone INFOTRAC 1-800-535-5053

## 2. HAZARDS IDENTIFICATION

### Classification (GHS-US)

Met. Corr. 1 H290  
Skin Corr. 1C H314  
\*Full text of H-phrases: see section 16

### GHS-US Labeling

Hazard pictograms (GHS-US):



Signal Word (GHS-US): **Danger**

Hazard Statements (GHS-US):

May be corrosive to metals  
Causes severe skin burns and eye damage

Precautionary statements (GHS-US):

Keep only in original container  
Do not breathe mist, spray  
Wash thoroughly after handling  
Wear eye protection, protective clothing, protective gloves  
If swallowed: rinse mouth. Do NOT induce vomiting  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a doctor, a POISON CENTER  
Specific treatment ( see First aid measures on this label)  
Wash contaminated clothing before reuse.  
Absorb spillage to prevent material damage.  
Store locked up

Store in corrosive resistant container with a resistant inner liner.

Dispose of contents/container to comply with local/regional/national/international regulations.

**Other hazards:** No additional information available

**Unknown acute toxicity (GHS-US):** Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance:** Not applicable

\*Full text of H-phrases: see section 16

**Mixture:**

Name	Product identifier	%	Classification (GHS-US)
Trisodium orthophosphate, dodecahydrate	(CAS No) 10101-89-0	1-5	Skin Corr. 1A, H314
Ammonia, anhydrous	(CAS No) 7664-41-7	0.5-2.5	Flam. Gas 2, H221 Acute Tox. 3 (inhalation), H331 Skin Corr. 1B, H314
Potassium hydroxide	(CAS No) 1310-58-3	0.5-1.5	Met. Corr. 1, H290 Acute Tox. 3 (oral), H301 Skin Corr. 1A, H314
Disodium metasilicate	(CAS No) 6834-92-0	0.5-1.5	Skin Corr. 1B, H314 STOT SE 3, H335
Nonylphenoxy poly(ethyleneoxy) ethanol (9EO)	(CAS No) 9016-45-9	0.5-1.5	Acute Tox. 4 (oral), H302 Eye Dam. 1, H318

### 4. FIRST AID MEASURES

**Description of first aid measures:**

**First-aid measures general:**

If you feel unwell, seek medical advice (show the label where possible).

**First-aid measures after inhalation:**

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**First-aid measures after skin contact:**

Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

**First-aid measures after eye contact:**

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/physician.

**First-aid measures after ingestion:**

Rinse mouth. Do NOT induce vomiting. Call a poison center or doctor if you feel unwell.

**Most important symptoms and effects, both acute and delayed:**

**Symptoms/injuries:**

Causes severe burns and eye damage.

**Symptoms/injuries after inhalation:**

May cause respiratory irritation.

**Symptoms/injuries after skin contact:**

Caustic burns/corrosion of the skin.

**Symptoms/injuries after eye contact:**

Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.

**Symptoms/injuries after ingestion:**

May be harmful if swallowed. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints.

**Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:**

**Suitable extinguishing media:**

All extinguishing media allowed.

**Special hazards arising from the substance or mixture:**

**Reactivity:**

Thermal decomposition may produce oxides of carbon and nitrogen. Toxic fumes may be released.

**Advice for firefighters:**

**Firefighting instructions:**

Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.

**Protection during firefighting:**

Do not enter fire area without proper protective equipment, including respiratory protection.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures:**

**General measures:** Isolate from fire, if possible, without unnecessary risk.

#### **For non-emergency personnel:**

Protective equipment: Protective goggles. Gloves. Protective clothing.

Emergency procedures: Evacuate unnecessary personnel. Avoid contact with skin, eyes, and clothing. Ventilate spillage area.

#### **For emergency responders:**

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Stop leak if safe to do so. Stop release. Ventilate area.

### **Environmental precautions:**

Avoid release to the environment. Prevent soil and water pollution.

### **Methods and material for containment and clean up:**

**For containment:** Contain released substance, pump into suitable containers.

**Methods for cleaning up:** This material and its container must be disposed of in a safe way, and as per local legislation.

### **Reference to other sections:**

No additional information available.

## 7. HANDLING AND STORAGE

### **Precautions for safe handling:**

**Precautions for safe handling:** Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink, or smoke when using this product. Do not get in eyes, on skin, or on clothing.

**Hygiene measures:** Wash thoroughly after handling. Wash contaminated clothing before reuse.

### **Conditions for safe storage, including any incompatibilities:**

**Technical measures:** Comply with applicable regulations.

**Storage conditions:** Keep container closed when not in use. Store locked up. Store in corrosive resistant container with a resistant inner liner.

**Incompatible products:** Strong acids. Oxidizing agents. Halogen.

**Heat-ignition:** KEEP SUBSTANCE AWAY FROM: (strong) acids

**Storage area:** Meet the legal requirements. Store in a dry area. Store in a cool area.

**Special rules on packaging:** Meet the legal requirements. Keep only in original container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters:**

<b>Potassium hydroxide (1310-58-3)</b>		
ACGIH	ACGIH Ceiling (mg/m3)	2 mg/m3

### **Exposure controls:**

**Personal protective equipment:** Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Safety glasses. Protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Information on basic physical and chemical properties:**

Physical state	Liquid
Appearance	Clear to hazy liquid. Yellow liquid.
Odor	Pungent
Odor threshold	No data available
pH	12.5-13.5
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	> 200 F
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	No data available

Explosion limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapor pressure	No data available
Relative density	No data available
Relative vapor density at 20 C	No data available
Specific gravity/density	1.03 g/ml
Solubility	Soluble in water.
Log Pow	No data available
Log Kow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
VOC content	< 0.5 %

## 10. STABILITY AND REACTIVITY

### **Reactivity:**

Thermal decomposition may produce oxides of carbon and nitrogen. Toxic fumes may be released.

### **Chemical stability:**

Stable under normal conditions.

### **Possibility of hazardous reactions:**

Refer to reactivity.

### **Conditions to avoid:**

No additional information available.

### **Incompatible materials:**

May be corrosive to metals.

### **Hazardous decomposition products:**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION

### **Information on toxicological effects:**

**Acute toxicity:** Not classified.

<b>Ammonia, anhydrous (7664-54-7)</b>	
ATE CLP (gases)	700.000 ppmV/4h
Potassium hydroxide (1310-58-3)	
LD50 oral rat	273 mg/kg (Rat)
ATE CLP (oral)	273.000 mg/kg body weight
<b>Trisodium orthophosphate, dedocahydrate (10101-89-0)</b>	
LD50 oral rat	7400 mg/kg (Rat; OECD 420: Acute Oral toxicity - Acute Toxic Class Method; Literature study; >2000 mg/kg bodyweight; Rat)
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 0.83 mg/l/4h (Rat; Read-across)
ATE CLP (oral)	7400.000 mg/kg body weight

**Skin corrosion/irritation:** Causes severe skin burns and eye damage

pH: 12.5-13.5

**Serious eye damage/irritation:** Not classified.

pH: 12.5-13.5

**Respiratory or skin sensitization:** Not classified.

**Germ cell mutagenicity:** Not classified.

**Carcinogenicity:** Not classified

**Reproductive toxicity:** Not classified

**Specific target organ toxicity (single exposure):** Not classified.

**Specific target organ toxicity (repeated exposure):** Not classified

<b>Aspiration hazard:</b>	Not classified.
<b>Symptoms/injuries after inhalation:</b>	May cause respiratory irritation.
<b>Symptoms/injuries after skin contact:</b>	Caustic burns/corrosion of the skin.
<b>Symptoms/injuries after eye contact:</b>	Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.
<b>Symptoms/injuries after ingestion:</b>	May be harmful if swallowed. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints.

## 12. ECOLOGICAL INFORMATION

### **Toxicity:**

<b>Nonylphenoxypoly(ethyleneoxy)ethanol (9EO) (9016-45-9)</b>	
LC50 fish 1	5 mg/l (96 h; Gasterosteus aculeatus; Intermittent flow)
EC50 other aquatic organisms 1	500 mg/l (Selenastrum capricornutum; Chronic)
LC50 fish 2	7 mg/l (96 h; Leuciscus idus)
Threshold limit algae 1	500 mg/l (Selenastrum capricornutum; Cell numbers)
<b>Potassium hydroxide (1310-58-3)</b>	
LC50 fish 1	28.6 mg/l (24 h; Pisces; Pure substance)
LC50 other aquatic organisms 1	100 - 1000 mg/l (96h)
LC50 fish 2	80 mg/l (96 h; Gambusia affinis; Pure substance)
Threshold limit other aquatic organisms 1	100-1000, 96 h
<b>Trisodium orthophosphate, dodecahydrate (10101-89-0)</b>	
LC50 fish 1	2400 mg/l (48 h; Leuciscus idus; Anhydrous form)
EC50 Daphnia 1	> 100 mg/l (48h; Daphnia magna)
LC50 fish 2	220 mg/l (96 h; Lepomis macrochirus; Anhydrous form)
Threshold limit algae 1	> 100 mg/l (72 h; Desmodesmus subspicatus)

### **Persistence and degradability:**

<b>Nonylphenoxypoly(ethyleneoxy)ethanol (9EO) (9016-45-9)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>Potassium hydroxide (1310-58-3)</b>	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
<b>Trisodium orthophosphate, dodecahydrate (10101-89-0)</b>	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. No (test)data on mobility of the substance available.
ThOD	Not applicable (inorganic)

### **Bioaccumulative potential:**

<b>Nonylphenoxypoly(ethyleneoxy)ethanol (9EO) (9016-45-9)</b>	
Log Pow	> 4
<b>Potassium hydroxide (1310-58-3)</b>	
Bioaccumulative potential	Not bioaccumulative.
<b>Trisodium orthophosphate, dodecahydrate (10101-89-0)</b>	
Bioaccumulative potential	Not bioaccumulative.

## 13. DISPOSAL CONSIDERATIONS

### **Waste treatment methods:**

**Waste disposal recommendations:** Dispose of contents/container to comply with local/national regulations.

## 14. TRANSPORT INFORMATION

### **Department of Transportation (DOT)**

**Transport document description:** NA1760 Compounds, cleaning liquid (Ammonium Hydroxide), 8, III  
**UN-No.(DOT):** NA1760  
**Proper Shipping Name (DOT):** Compounds, cleaning liquid  
**Transport hazard class(es) (DOT):** 8 - Class 8 - Corrosive material 49 CFR 173.136  
**Hazard labels (DOT):** 8 - Corrosive

**Packing group (DOT):** III - Minor Danger  
**DOT Packaging Non Bulk (49 CFR 173.xxx):** 203  
**DOT Packaging Bulk (49 CFR 173.xxx):** 241  
**DOT Symbols:** D - Proper shipping name for domestic use only, or to and from Canada, G - Identifies PSN requiring a technical name.  
**DOT Special Provisions (49 CFR 172.102):** IB3, N37, T7, TP1, TP28  
**DOT Packaging Exceptions (49 CFR 173.xxx):** 154  
**DOT Quantity Limitations Passenger aircraft/rail (49 CFR 175.27):** 5L  
**DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75):** 60L  
**DOT Vessel Stowage Location:** A  
**DOT Vessel Stowage Other:** 40 - Stow "clear of living quarters"

**Additional information:**

**Other information:** This product may be eligible to be shipped as a Limited Quantity or Consumer Commodity ORM-D utilizing the exception found at 49 CFR 173.154

**ADR:**

No additional information available.

**Transport by sea:**

No additional information available.

**Air Transport:**

No additional information available.

## 15. REGULATORY INFORMATION

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) or 1986 and 40 CFR Part 372.

Ammonia, anhydrous	CAS No 7664-41-7	0.5-2.5
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Ammonia, anhydrous (7664-41-7)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb
Potassium hydroxide (1310-58-3)	
Not listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000lb
Trisodium orthophosphate, dodecahydrate (10101-89-0)	
Not listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb

**California Proposition 65** - This product contains, or may contain, trace quantities of a substance(s) known to the State of California to cause cancer and /or reproductive toxicity.

## 16. OTHER INFORMATION

**Training advice:** Normal use of this product shall imply use in accordance with the instructions on the packaging.

**Full text of H-phrases:**

Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Gas 2	Flammable gases Category 2
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Corr. 1C	Skin corrosion/irritation Category 1C

STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H221	Flammable gas
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H331	Toxic if inhaled
H335	May cause respiratory irritation

**NFPA health hazard:** 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

**NFPA fire hazard:** 0 - Materials that will not burn.

**NFPA reactivity:** 0 - Normally stable, even under fire exposure conditions, and are not reactive with water

**Disclaimer**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendee or users assume all risks associated with the use of this material.