

Corrosion Technologies  
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# BLAST OFF™ Safety Data Sheet

## 1. IDENTIFICATION

**Product Name:** BLAST OFF™  
**Product Numbers:** 22501, 22502, 22504, 22505  
**Product Type and Use:** Concrete and Rust Remover  
**Manufacturer:** Corrosion Technologies, LLC  
2638 National Drive, Garland, TX 75041  
**Contact:** Telephone: 972-271-7361 Fax: 972-278-9721  
**Emergency Telephone:** CHEMTREC® USA (800) 424-9300  
Outside US +1 (703) 527-3887  
NZ Poison emergency no: 0800 POISON (0800 764 766)  
**Distributor in New Zealand:** Corrosion Control NZ  
48 Riverside drive  
Whangarei 0112  
Northland  
New Zealand  
Tel: +64 9-438-88-00  
Email: [tom@corrosionx.org](mailto:tom@corrosionx.org)

## 2. HAZARDS IDENTIFICATION

### Hazard Classification

#### Health Hazard(s)

Skin Irritation Category 1B  
Eye Irritation Category 1  
Acute Toxicity - Inhalation Category 4  
Acute Toxicity - Oral Category 4

#### Physical Hazard(s)

Corrosive to metals Category 1

#### Hazard(s) not otherwise classified

None

### Labeling

**Signal Word:** DANGER  
**Pictograms:** Corrosion, Exclamation mark



### Statements of Hazard

#### Hazard Statements

Causes severe skin burns and eye damage  
Harmful if inhaled or swallowed  
May be corrosive to metals

#### Precautionary Statements

Wear protective gloves, eye and face protection. Do not breathe vapors or mist. Use only outdoors or in a well-ventilated area. Take off immediately all contaminated clothing and wash it before reuse. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Store locked up. Keep only in original container. Absorb spillage to prevent material damage. Store in corrosive resistant container with resistant inner liner. Dispose of contents and container in accordance with applicable regulations.  
If on skin: Rinse skin with water or shower. 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 inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.  
If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percent by Wt.
Urea Hydrochloride	506-89-8	75-99*

\* Exact percentage of composition has been withheld as a trade secret

## 4. FIRST AID MEASURES

**General Advice:** Causes skin and eye damage. Avoid contact. Do not swallow. Avoid breathing vapors or mist. Use with adequate ventilation. Keep container closed.

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.

**Skin Contact:** Remove contaminated clothing. Flush skin with plenty of water. Remove contaminated clothing and wash before reuse. Immediately call a poison center or doctor.

**Eye Contact:** Immediately flush 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.

**Ingestion:** Do not give anything by mouth to an unconscious person. Do not induce vomiting unless advised to do so by a doctor or poison control center. Rinse mouth. Immediately call a poison center or doctor.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Product does not support combustion. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Suitable:** Carbon Dioxide, Dry Chemical, and Foam

**Unsuitable:** Alcohol, Alcohol based solutions

**Fire Fighting Procedures:** As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool fire-exposed containers with water spray.

**Unusual Fire and Explosion Hazards:** Flammable hydrogen gas may be produced on contact with aluminum, tin, lead and zinc

**Hazardous Combustion/ Decomposition Products:** Thermal decomposition can lead to release of toxic and irritating hydrogen chloride. Oxides of carbon and nitrogen.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions / Protective Equipment / Emergency Procedures:** Use caution as spills may be slippery. Ensure adequate ventilation. Use personal protective equipment.

**Methods and materials for containment and cleaning up:** Dike and contain large spills with inert absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer liquid to plastic containers. Flush surfaces with plenty of water to sanitary sewer system (If permitted by local sewer regulations). Do not store or dispense into metal containers; especially aluminum. Use clean non-sparking tools to collect absorbed material and transfer to a properly labeled container for recovery or disposal according to applicable regulations.

## 7. HANDLING AND STORAGE

### HANDLING

**Precautions for Safe Handling:** Avoid skin and eye contact. Use with adequate ventilation. Avoid breathing mist or vapors. Follow all SDS/label precautions.

### STORAGE

**Conditions to avoid:** Store in a cool, dry, well-ventilated place in the original container. Do not transfer or store in metal containers. Keep container tightly closed when not in use. Avoid excess heating and high temperatures.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMITS

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Component	ACGIH	OSHA		NIOSH		IDLH	STEL
	TLV ppm	TLV mg/m3	PEL ppm	PEL mg/m3	ppm		
Hydrochloric Acid	2	Not Est.	5	7	50	Not Est.	

**Engineering Controls:** Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

### Personal Protection

**Respiratory Protection:** None required under normal use conditions. In case of insufficient ventilation, wear a suitable NIOSH approved air purifying respirator with acid vapor cartridge.

**Hand / Skin Protection:** Wear impermeable gloves such as neoprene or nitrile rubber gloves. Gauntlets and apron may be worn depending on the extent of exposure.

**Eye / Face Protection:** Face shield with safety glasses with side-shields.

**General Hygiene Measures:** Avoid contact. Always wash hands and face before eating, drinking or smoking. Remove and wash contaminated clothing before re-use. An eyewash station and washing facilities should be readily accessible to the area of use. See 29 CFR 1910.132-138 for further guidance.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Transparent	<b>Autoignition Temperature:</b>	Not established
<b>Physical State:</b>	Non-viscous liquid	<b>Volatile by volume (%):</b>	1-25
<b>Odor:</b>	None	<b>Vapor Density (Air=1):</b>	1
<b>Color:</b>	Light Yellow	<b>Evaporation Rate (BuAc= 1):</b>	<1
<b>Viscosity, cSt @ 40°C:</b>	Not established	<b>Vapor Pressure, mmHg @23°C:</b>	21.1
<b>cSt @ 100°C:</b>	Not established	<b>Solubility in water:</b>	Complete
<b>pH:</b>	<1	<b>Octanol/Water Partition:</b>	Not established
<b>Boiling Point/ Range:</b>	>200 °F / 93°C	<b>VOC Content g/l (%):</b>	0 (0)
<b>Melting Point:</b>	Not established	<b>Specific Gravity @15.6°C:</b>	1.09
<b>Flash Point:</b>	Not applicable	<b>Pour Point:</b>	Not established
<b>Method:</b>	Not applicable	<b>Non-volatile by Volume (%):</b>	75-99
<b>Lower Explosive Limit, vol %:</b>	Hydrogen, 4	<b>Dielectric Strength:</b>	Not applicable
<b>Upper Explosive Limit, vol %:</b>	Hydrogen, 75		

## 10. STABILITY AND REACTIVITY

**Stability:** Stable at ambient temperatures and up to 230°F/110°C.

**Conditions to Avoid:** Heating above 230°F/110°C results in an exothermic decomposition with rapid release of carbon dioxide gas.

**Hazardous Polymerization:** Will not occur.

**Materials to Avoid:** Strong bases/alkali, strong oxidizing agents, reducing agents, magnesium, aluminum and other reactive metals, rubber, leather, chlorate, nitrates, sulfides, sulfites and hypochlorites (chlorine bleach).

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information:** Not established

**Ingredient Information:** Urea Hydrochloride OrI-rat LD50 - 1121 mg/kg

Hydrochloric acid OrI-Rat LD50 700 mg/kg, Skn-Rbt LD50 > 5010 mg/kg, Ihl-Rat LC50 3124 ppm 1 h

### Acute Effects

**Signs and Symptoms of Overexposure:** Skin and serious eye irritation, Coughing, Sneezing

**Inhalation:** Mist and vapors may cause respiratory irritation with nasal discomfort and discharge, coughing and sneezing.

**Skin Contact:** May cause redness, pain and burns.

**Eye Contact:** May cause tearing, redness, pain, and swelling of the conjunctiva. May cause blindness.

**Ingestion:** May cause pain, nausea, vomiting and diarrhea. Aspiration of product into the lungs may occur during ingestion or vomiting, resulting in lung injury.

**Primary Route(s) of Exposure:** Eyes, Skin, Inhalation

**Primary Route(s) of Entry:** Inhalation, Ingestion

**Target Organs:** Skin, Eyes, Lungs

**Chronic Effects:** None known

**Carcinogenicity:** Not established

**Medical Conditions Aggravated by Exposure:** May aggravate existing skin, eye and respiratory conditions including asthma and dermatitis.

## 12. ECOLOGICAL INFORMATION

**Product Data:** Not established

**Ingredient Data:** Urea Hydrochloride 96 hour LC50 >140 mg/L (rainbow trout) , 48 hour LC50 71.1 mg/L (ceriodaphnia dubia), 15 minute IC50, 16.23% effect at a concentration of 10 mg/L (Vibrio fischeri, 4H6002), EC50 70-100 mg/kg (daphnia)

### Elimination Information

Persistence and degradability: Not biodegradable. Hydrochloric acid will be neutralized to chloride by alkalinity present in natural environment.

Mobility in soil: Hydrochloric acid will be neutralized by naturally occurring alkalinity. The acid will permeate soil, dissolving some soil material and will then neutralize.

## 13. DISPOSAL CONSIDERATIONS

**Product:** Dispose of in accordance with applicable regulations.

**Container:** Empty remaining contents. Empty containers should be taken for local recycling, recovery or waste disposal.

## 14. TRANSPORT INFORMATION

### Road Transport

Proper Shipping Name: Corrosive Liquid, Acidic, Organic, N.O.S. (Urea Hydrochloride)

UN number: UN3265

Class: 8

Packing Group: PG II

### Air Transport

Proper Shipping Name: Corrosive Liquid, Acidic, Organic, N.O.S. (Urea Hydrochloride)

UN number: UN3265

Class: 8

Packing Group: PG II

### Ocean Transport

Proper Shipping Name: Corrosive Liquid, Acidic, Organic, N.O.S. (Urea Hydrochloride)

UN number: UN3265

Class: 8

Packing Group: PG II

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations

**Toxic Substances Control Act (TSCA):** All components are included on the Inventory

**Superfund Amendments and Reauthorization Act (SARA) Title III:**

Immediate Hazard	Delayed Hazard	Fire Hazard	Pressure Hazard	Reactivity Hazard
X	-	-	-	-

### New Zealand

**HSNO Group Standard:** Cleaning Products (Corrosive) Group Standard 2017 - HSR002526

**HSNO classification:** 8.2B, 8.3A, 6.1D, 8.1A

**NZIoC (New Zealand Inventory of Chemicals):** All components are listed on the NZIoC inventory or are exempt.

## 16. OTHER INFORMATION

**Prepared by:** Corrosion Technologies Technical Services Department

**Revision Date:** 21 Sept 2018

**Supersedes Date:** 13 Oct 2015

**Revision Indicator:** v 1.2

Addition of HSNO classification

National Fire Protection Association (704)

Health: 3

Flammability: 0

Reactivity: 0

Other: -

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