

# SAFETY DATA SHEET

## WORKING COPY

Date issued : 07/21/2022  
SDS number : 1B.22BR12

Crete

### 1. Identification

**Product code:** 1B.22BR12  
**Product identifier:** Crete  
**Relevant identified uses:** Urinal Cleaner

#### Distributor

Brodi Specialty Products  
3175 14th Avenue Unit 1  
Markham, ON L3R0H1

### 2. Hazard identification

#### Classification of the substance or mixture

##### Health hazards:

Acute Toxicity (Oral), Category 4  
Acute Toxicity (Inhalation), Category 3  
Skin Irritation, Category 1B  
Serious Eye Damage, Category 1

#### Label elements



Corrosion



Environment



Skull and  
crossbones

**Signal word:** DANGER

#### Hazard statement(s)

H314: Causes severe skin burns and eye damage.  
H303: May be harmful if swallowed.  
H331: Toxic if inhaled.  
H335: May cause respiratory irritation.

#### Precautionary statement(s)

##### Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P262: Do not get in eyes, on skin, or on clothing.  
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/...  
P302+P352: IF ON SKIN: Wash with plenty of water/...  
P304+P312: IF INHALED: Call a POISON CENTER/doctor/...if you feel unwell.  
P330: Rinse mouth.  
P331: Do NOT induce vomiting.  
P361: Take off immediately all contaminated clothing.  
P363: Wash contaminated clothing before reuse.

#### Potential health effects

**Eye:** Vapor or solution rapidly causes severe irritation of the eyes and eye lids. If not removed by thorough irrigation with water, there may be prolonged or permanent visual impairment or total loss of sight.

**Skin:** Contact causes severe burns unless immediately washed off. Repeat contact with dilute solutions may lead to dermatitis and photosensitization. Exposure to the concentrated vapor may result in burns or dermatitis. Chronic exposure to low concentrations causes erosion of the teeth, skin tenderness, and bleeding of the nose and gums. Dermal LD (50)(rabbit): >5010 mg/kg. Practically non-toxic.

**Ingestion:** If swallowed causes severe burns of the mucous membrane of the mouth, esophagus and stomach. G.I. tract may perforate in extreme cases. Asphyxia may occur from edema of the larynx. The lips and mouth usually turn white, and later, brown. There is pain in the throat and stomach, difficulty in swallowing, intense thirst, nausea, and vomiting, followed by diarrhea, respiratory distress, kidney inflammation, and in severe cases, collapse and death. Oral LD (50)(rat): 700 mg/kg. Slightly toxic.

**Inhalation:** Inhalation of excessive concentrations of gas mist vapor immediately produces severe irritation of the upper respiratory tract, resulting in coughing, burning of the throat, headaches, rapid heartbeat and a choking sensation. Inflammation, destruction of nasal passages and breathing difficulties can occur with higher concentrations and may be delayed in onset. 1000-2000 ppm can be fatal. LC (50)(rat) 3127 ppm/1 hour. Vapor has such a sharp penetrating odor that inhalation of toxic quantities is unlikely unless victim is trapped.

**Routes of entry:** Inhalation, Skin

**Target organ statement:** Eyes, Skin, Upper respiratory tract, throat, stomach

**Comments:** Chronic Toxicity: exposure of 100 ppm for 6 hours a day for 50 days caused only slight unrest and irritation to the eyes and nose of rabbits, guinea pigs and pigeons. The hemoglobin content of the blood was also slightly diminished. Monkeys receiving twenty exposures of 33 ppm for 6 hours did not display any adverse effects. Higher exposures (unspecified) have caused weight loss which paralleled the severity of exposure. In humans, long term overexposure has been associated with erosion of the teeth.

### 3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Hydrochloric Acid	< 25	7647-01-0
Linear Primary Alcohol Ethoxylate	< 2	68439-46-3

### 4. First-aid measures

**Eye:** Immediately flush eyes with large amounts of water for at least 15 minutes, if contact lenses are present remove after 5 minutes and continue flushing, lifting eyelids occasionally to facilitate irrigation. Get immediate medical attention. Do not use chemical antidotes.

**Skin:** Promptly flush skin with water until all chemical is removed. Remove contaminated clothing and wash before reuse. Get medical attention. Do not use chemical antidotes. Existing skin and/or eye conditions may be aggravated by exposure.

**Ingestion:** DO NOT induce vomiting. Drink large amounts of water, milk or preferably a non-gassing neutralizer such as milk of magnesia. Do not give carbonates, bicarbonates or chalk. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Call a physician immediately.

**Inhalation:** If symptoms develop, move victim to fresh air. Give artificial respiration or oxygen if needed. Get immediate medical attention. Asthma, bronchitis, emphysema, and other lung conditions and chronic nose, sinus or throat conditions may be aggravated by exposure.

**Indication of immediate medical attention and special treatment needed, if necessary:** This material is corrosive to the intestinal tract. If swallowed, gastric lavage should be used with extreme caution. Not listed as a carcinogenic by IARC, NTP or OSHA.

### 5. Fire-fighting measures

**Fire fighting procedures:** Use any standard agent-choose the one most appropriate for type of surrounding fire. Use water spray to cool fire exposed containers to prevent rupture. If it can be accomplished safely, move containers away from fire area.

**Hazardous decomposition products:** Releases hydrogen chloride gas when heated. Product will react with most organic material with the evolution of heat and large quantities of dense, white fumes.

### 6. Accidental release measures

**Comments:** Contain spills, recover for use if possible, or use absorbent for large spills, place in container for proper disposal. Flush spill area with water and neutralize with soda ash.

### 7. Handling and storage

**General procedures:** KEEP OUT OF REACH OF CHILDREN

**Precautions for safe handling:** Wear protective clothing. Wash thoroughly after handling. Wash clothing before reuse and decontaminate or discard contaminated shoes.

**Conditions for safe storage:** Keep away from direct sunlight. Store in a dry, well ventilated area. Keep away from oxidizing agents and alkaline materials. Keep containers closed when not in use.

## 8. Exposure controls/personal protection

**Appropriate engineering controls:** Sufficient to reduce acid mists and vapor concentrations below permissible PEL/TLV levels.

**Individual protection measures, such as personal protective equipment**

**Eye / face protection:** Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick drench facilities in work area. DO NOT wear contact lenses.

**Skin protection - hand protection:** Gloves (solvent resistant), Acid-proof gauntlet gloves, apron, and boots.

**Respiratory protection:** For exposure over PEL/TLV use self-contained breathing apparatus.

## 9. Physical and chemical properties

**Color:** Red

**Odor:** Mint

**Physical state comments:** Liquid

**pH:** < 2

**Melting point:** Not Available

**Freezing point:** Not Available

**Initial boiling point and boiling range:** Muriatic Acid 20' BE/ 182.deg F

**Flash point:** Not Available

**Evaporation rate (n-butyl acetate = 1):** No information Available

**Explosion limit / flammability limit notes:** No information Available

**Vapor pressure:** Not Available

**Relative vapor density:** Heavier than air.

**Density:** 9.38

**Relative density:** 1.124

**Solubility:** Complete

**Auto-ignition temperature:** Not Available

**Decomposition temperature:** No information Available

**Viscosity:** Water thin

**Molecular weight:** Not Available

**Pour point:** Not Available

**Oxidizing properties:** No information Available

**Percent volatiles:** Approx. 98%

**VOC content:** No information Available

## 10. Stability and reactivity

**Dangerous polymerization:** No

**Chemical stability:** Stable Under Normal conditions.

**Conditions to avoid:** Avoid strong oxidizing agents and oxidation promoting conditions. Keep Away from Heat. Keep Containers Closed. Keep away from sparks or open flames.

**Hazardous decomposition products:** HCL evolution accelerated by heating or contact with water-reactive materials such as concentrated sulfuric acid. Reactions with metals can release flammable hydrogen gas.

**Incompatible materials:** Alkalies, most metals, metallic oxides, amines, strong oxidizing agents, flourine, vinyl acetate, propiolactone(beta), propylene oxide. Water reactive materials such as concentrated sulfuric acid, oleum and acetic anhydride. Carbonates, cyanides, and sulfides in contact with this acid liberate toxic gases.

**11. Toxicological information****Acute toxicity**

Chemical name	LD <sub>50</sub> (oral) mg/kg(rat)	LD <sub>50</sub> (dermal) mg/kg(rabbit)
Linear Primary Alcohol Ethoxylate	1 400 to 2700	> 4000

**Carcinogenicity**

Chemical name	IARC
Hydrochloric Acid	3

**12. Ecological information**

**Comments:** THIS PRODUCT HAS NOT BEEN TESTED.

**13. Disposal considerations**

**Disposal methods:** Dispose of in accordance with federal, state, and local regulations. Contaminated Packaging.

**14. Transport information****USA Department of Transport Regulations (DOT)**

**UN proper shipping name:** CORROSIVE LIQUID, Acidic, Inorganic, N.O.S., 8, III (Contains Hydrochloric Acid)

**Transport hazard class(es):** 8

**UN number:** 3264

**Packing group, if applicable:** III

**NAERG:** 154

**Placards:** Corrosive placard required.

**Note:** Can be shipped as Limited Quantity when packaged in 12/1Qt and 4/1 Gal cartons.

**15. Regulatory information****UNITED STATES****Dot label symbol and hazard classification**

Corrosive

**SARA Section 311/312 Hazard Categories****EPCRA Section 313 Toxic Chemicals**

Chemical name	% w/w	CAS No.
Hydrochloric Acid	< 25	7647-01-0

**CERCLA Hazardous Substances and Reportable Quantities (RQ)**

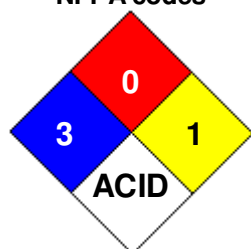
Chemical name	% w/w	CERCLA rq
Hydrochloric Acid	< 25	5,000

**TSCA (The Toxic Substances Control Act)**

Chemical name	CAS No.
Hydrochloric Acid	7647-01-0
Linear Primary Alcohol Ethoxylate	68439-46-3

**CAA 112(b) Hazardous Air Pollutants**

Chemical name	% w/w	CAS No.
Hydrochloric Acid	< 25	7647-01-0

**16. Other information****Date Prepared:** 07/21/2022**NFPA codes**

**Manufacturer disclaimer:** The information presented herein is believed to be accurate but is not warranted. Recipients are advised to confirm in advance that the information is current, applicable and suitable to their circumstances.