# **Safety Data Sheet**

CRC-225 Descaler

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Identifier** 

Product Name Descaler

Other means of identification

 SDS #
 CRC-225

 Product Code
 CRC-225

 UN/ID No
 UN1789

Recommended use of the chemical and restrictions on use

Recommended Use Descaler

Details of the supplier of the safety data sheet

**Manufacturer Address** 

Colonial Research Chemical Corp.

PO Box 609

Norfolk, NE 68702-0609

**Emergency Telephone Number** 

 Company Phone Number:
 402-379-0100

 Emergency Telephone:
 (24 hr)

 800-535-5053



Specialty Products Since 1970

### 2. HAZARDS IDENTIFICATION

Appearance: Pink liquid Physical State: Liquid Odor: Pungent, irritating

#### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

### Signal Word

Danger

#### **Hazard Statements**

Harmful if swallowed

Toxic if inhaled

Causes severe skin burns and eye damage

May cause respiratory irritation

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

Immediately call a poison center or doctor/physician

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/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison center or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do not induce vomiting

### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed

Store locked up

## Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Hydrochloric acid	7647-01-0	60-80
Ethoxylated Nonylphenol	9016-45-9	1-5

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

#### 4. FIRST-AID MEASURES

#### First Aid Measures

**General Advice** Provide this SDS to medical personnel for treatment.

**Eye Contact** Flush with water for 15 minutes lifting upper and lower eyelids. Call a physician. **Skin Contact** Remove contaminated clothing and wash with soap and water for 15 minutes.

**Inhalation** Move to fresh air immediately. If breathing stops, administer CPR.

Ingestion Rinse mouth. Give large amounts of water. DO NOT induce vomiting. Get immediate

medical attention.

#### Most important symptoms and effects

Symptoms Eyes: Liquid can cause eye irritation, severe burns and permanent damage.

Skin: Hydrogen chloride vapor can rapidly cause burning of skin.

Inhalation: Hydrogen chloride gas can cause irritation of respiratory tract.

Ingestion: May cause burns to mouth.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Medical conditions aggravated: Asthma, bronchitis, emphysema and other lung conditions

and chronic nose, sinus and throat conditions.

#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Water.

Unsuitable Extinguishing Media Not determined.

### **Specific Hazards Arising from the Chemical**

Product is not flammable or combustible.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. All containers should be cooled with water to prevent vapor pressure build up.

#### 6. ACCIDENTAL RELEASE MEASURES

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

Personal Precautions Evacuate immediate area where fumes are present. Wear protective clothing as described

in Section 8 of this safety data sheet.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up

Neutralize the spilled product with soda ash. Sweep up absorbed material and shovel into

suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section

13 of the SDS.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

### **Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Read all directions on label of container before using. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, smoke, or apply cosmetics while handling this product. Use only with adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8.

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### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep out of

the reach of children. Store locked up.

**Incompatible Materials** Metals, alkalis and phosphates.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm	IDLH: 50 ppm
7647-01-0		(vacated) Ceiling: 7 mg/m <sup>3</sup>	Ceiling: 5 ppm
		Ceiling: 5 ppm	Ceiling: 7 mg/m <sup>3</sup>
		Ceiling: 7 mg/m <sup>3</sup>	

#### **Appropriate engineering controls**

**Engineering Controls** Local exhaust is sufficient. Mechanical is recommended.

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

Eye/Face Protection Goggles.

**Skin and Body Protection** Acid proof apron and rubber shoes should be worn. Rubber gloves.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations Do not eat, drink or smoke when using this product. Wash contaminated clothing before

reuse

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical State Liquid

AppearancePink liquidOdorPungent, irritatingColorPinkOdor ThresholdNot determined

Property Values Remarks • Method

pH Not availableMelting Point/Freezing Point Not determined

Boiling Point/Boiling Range Not determined 110 °C / 230 °F

Flash Point None

Evaporation Rate 1 (butyl acetate = 1)

Flammability (Solid, Gas)
Upper Flammability Limits
Not determined
Lower Flammability Limit
Vapor Pressure
Vapor Density
Not determined
Not available
Not determined

Specific Gravity 1.12

Water Solubility Completely soluble Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

#### 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions. Do not mix with other chemicals

**Chemical Stability** 

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

#### **Conditions to Avoid**

Contact with bases can cause violent reactions generating large amounts of heat.

#### **Incompatible Materials**

Metals, alkalis and phosphates.

### **Hazardous Decomposition Products**

None known based on information supplied.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns.

Inhalation Toxic if inhaled. May cause irritation to the mucous membranes and upper respiratory tract.

Ingestion Harmful if swallowed. Ingestion may cause irritation of the mucous membranes, esophagus,

and stomach.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrochloric acid 7647-01-0	= 700 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 3124 ppm (Rat) 1 h
Ethoxylated Nonylphenol 9016-45-9	= 1310 mg/kg (Rat)	= 2 mL/kg (Rabbit)	-

#### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

However, the product as a whole has not been tested.

Chemic	al Name	ACGIH	IARC	NTP	OSHA
Hydroch 7647			Group 3		

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

STOT - single exposure May cause respiratory irritation.

#### **Numerical measures of toxicity**

Not determined

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrochloric acid 7647-01-0		282: 96 h Gambusia affinis mg/L LC50 static		

### Persistence/Degradability

Hydrochloric Acid: When released into the soil, this material is not expected to biodegrade and may leach into groundwater. This material is expected to be toxic to aquatic life.

Nonylphenol Ethoxylate: This product is biodegradable, but it can be dangerous if allowed to enter waterways, including water supplies, lakes, streams, ponds, or rivers.

#### **Bioaccumulation**

Not determined.

#### **Mobility**

Not determined

#### **Other Adverse Effects**

Not determined

#### 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

#### 14. TRANSPORT INFORMATION

**Note** The data provided in this section is for information only. Please apply the appropriate

regulations to properly classify your shipment for transportation.

DOT

UN/ID No UN1789

Proper Shipping Name Hydrochloric acid solution

Hazard Class
Packing Group

Reportable Quantity (RQ) 5000 lbs for Hydrochloric acid

### 15. REGULATORY INFORMATION

#### US Federal Regulations

#### **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrochloric acid	5000 lb	5000 lb	RQ 5000 lb final RQ
7647-01-0			RQ 2270 kg final RQ

#### **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Hydrochloric acid - 7647-01-0	7647-01-0	60-80	1.0

### **CWA (Clean Water Act)**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrochloric acid	5000 lb			X
7647-01-0 ( 60-80 )				

#### US State Regulations

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrochloric acid	X	X	X
7647-01-0			

#### **16. OTHER INFORMATION** NFPA **Health Hazards Flammability** Instability **Special Hazards** Not determined Not determined Not determined Not determined **Health Hazards Physical Hazards Personal Protection** <u>HMIS</u> **Flammability** 3 2 G

#### Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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