

# SAFETY DATA SHEET

## Crystal Drain Opener

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Directives

### 1. PRODUCT IDENTIFICATION

<b>1.1 TRADE NAME (AS LABELED):</b>	<b>Crystal Drain Opener</b>
<b>PRODUCT NUMBERS:</b>	HD-CRY-DO-6 (2 Lb Bottle), HD-CRY-DO-12 (2 Lb Bottle),
<b>SYNONYMS:</b>	None known
<b>CAS#:</b>	Mixture
<b>1.2 PRODUCT USE:</b>	Drain Opener
<b>1.3 MANUFACTURER'S NAME:</b>	<b>Roebic Laboratories, Inc.</b>
<b>ADDRESS:</b>	P.O.Box 927, 25 Connair Road, Orange, CT 06477 USA
<b>BUSINESS PHONE:</b>	1-203-795-1283 (Product Information)
<b>FAX NUMBER:</b>	1-203-795-5227
<b>1.4 EMERGENCY PHONE NUMBER:</b>	1-800-424-9300 Chemtrec (TOLL-FREE in USA/Canada)
<b>EMERGENCY PHONE #:</b>	<a href="mailto:custservice@roebic.com">custservice@roebic.com</a>
<b>EMAIL:</b>	
<b>1.5 PREPARATION INFORMATION:</b>	
<b>DATE OF CURRENT REVISION:</b>	October 19, 2015
<b>DATE OF LAST REVISION:</b>	New

### 2. HAZARD IDENTIFICATION

#### EMERGENCY OVERVIEW:

**Product Description:** This product is a white granular solid with no odor.

**Health Hazards:** Corrosive, may cause burns to skin, eyes, and respiratory system.

**Flammability Hazards:** This product is non-flammable.

**Reactivity Hazards:** None known

**Environmental Hazards:** The Environmental effects of this product have not been investigated. Release of this product is not expected to have significant adverse effects in the aquatic environment.

#### US DOT SYMBOLS



#### CANADA (WHMIS) SYMBOLS



#### EUROPEAN and (GHS) Hazard Symbols



Signal Word: **Danger!**

#### 2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE IN ACCORDANCE WITH 29 CFR 1200 (OSHA HCS) AND THE EUROPEAN UNION DIRECTIVES:

This product does meet the definition of a hazardous substance or preparation as defined by 29 CFR 1910. 1200 AND the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

#### **EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:**

##### **Index Number:**

**EC# 215-185-5 Annex VI Index #: 011-002-00-6**

**EC# 231-598-3 This substance is not classified in the Annex I of Directive 67/548/EEC**

**EC# 207-838-8 Annex VI Index #: 011-005-00-2**

Substances not listed either individually or in group entries must be self classified.

#### **Component(s) Contributing to Classification(s)**

All Components

#### **2.2 LABEL ELEMENTS:**

##### **GHS Hazard Classification(s):**

Skin Corrosion Category 1A

Eye Damage Category 1



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Crystal Drain Opener

**Hazard Statement(s):**

H314: Causes severe skin burns and eye damage  
H318: Causes serious eye damage

**Precautionary Statement(s):**

P260: Do not breathe dust.  
P264: Wash thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1999/45/EC:**

[C] Corrosive

**Risk Phrases:**

R35: Causes severe burns

**Safety Phrases:**

S24/25: Avoid contact with skin and eyes.  
S22: Do not breathe dust.

**2.3 HEALTH HAZARDS OR RISKS FROM EXPOSURE:**

**SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE:** The most significant routes of exposure for this product are by inhalation, skin contact, eye contact or ingestion.

**ACUTE:**

**INHALATION:** May cause corrosive burns.

**CONTACT WITH SKIN:** Corrosive, may cause skin burns upon contact.

**EYE CONTACT:** Corrosive, may cause severe eye damage. Direct contact with eyes may cause irreversible damage.

**INGESTION:** Ingestion may cause damage to gastrointestinal track.

**CHRONIC:** Repeated or prolonged exposure to fumes or materials may cause bronchial irritation with chronic cough, dermatitis to the skin, conjunctivitis to the eyes, and gastrointestinal disturbances.

**TARGET ORGANS: Acute/Chronic:** Eyes, Skin, Respiratory System, Gastrointestinal track.

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS#	EINECS #	Hazard Classification	Risk Phrases
Sodium Hydroxide	96-100%	1310-73-2	215-185-5	[C] Corrosive	R35
Sodium Chloride	0-2%	7647-14-5	231-598-3	[Xi] Irritant	R36
Sodium Carbonate (2:1)	0-2%	497-19-8	207-838-8	[Xi] Irritant	R36
Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250: 2000.

## 4. FIRST-AID MEASURES

**4.1 DESCRIPTION OF FIRST AID MEASURES:**

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists.

**SKIN CONTACT:** If product contacts skin, wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

**INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

**INGESTION:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known

**4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:**

Exposure to this product may cause burns to the skin, eyes, and respiratory system.

**4.3 RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and eliminate overexposure.

### 5. FIRE-FIGHTING MEASURES

#### 5.1 FIRE EXTINGUISHING MATERIALS:

Use fire extinguishing methods below:

Water Spray: Yes                      Carbon Dioxide: Yes  
 Foam: Yes                                Dry Chemical: Yes  
 Halon: Yes                                Other: Any "C" Class

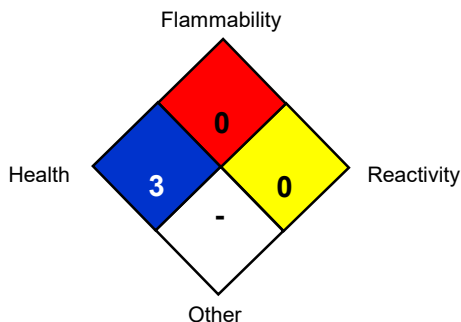
#### 5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS:

None known  
 Explosion Sensitivity to Mechanical Impact: No  
 Explosion Sensitivity to Static Discharge: No



#### 5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

#### NFPA RATING SYSTEM



#### HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)	3		
FLAMMABILITY HAZARD (RED)	0		
PHYSICAL HAZARD (YELLOW)	0		
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

See section 8.2 for Exposure Controls.

#### 6.2 ENVIRONMENTAL PRECAUTIONS:

For large volumes keep away from storm drains, surface waters, and soils.

#### 6.3 SPILL AND LEAK RESPONSE:

Sweep or vacuum up and place in an appropriate closed container. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

### 7. HANDLING and STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING:

To prevent skin and eye contact under the foreseeable conditions of use, wear appropriate protective clothing and safety eyewear. When handling do not eat, drink, or smoke. Wash thoroughly after handling.

#### 7.2 STORAGE AND HANDLING PRACTICES:

Keep in cool, dry, well-ventilated area in closed containers. Protect containers from physical damage.

#### 7.3 SPECIFIC USES:

Drain Opener.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

### 8.1 EXPOSURE PARAMETERS:

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Sodium Chloride	7647-14-5	Not Listed	Not Listed
Sodium Carbonate (2:1)	497-19-8	Not Listed	Not Listed

### 8.2 EXPOSURE CONTROLS:

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.*

**RESPIRATORY PROTECTION:** Not normally required when using this product. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**EYE PROTECTION** Safety glasses or goggles are required where splashing is possible. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

**HAND PROTECTION:** Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

**BODY PROTECTION:** Use body protection appropriate to task being performed. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

## 9. PHYSICAL and CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

**APPEARANCE (Physical State) and COLOR:** This product is a white granular solid.

**ODOR:** No odor

**ODOR THRESHOLD:** Not Available

**pH:** >12.5

**MELTING/FREEZING POINT:** Not Applicable

**BOILING POINT:** 2534°C (1390°F)

**FLASH POINT:** Not Applicable

**EVAPORATION RATE (n-BuAc=1):** Not Available

**FLAMMABILITY (SOLID, GAS):** Not Available

**UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS:** Not Available

**VAPOR PRESSURE (mm Hg @ 20°C (68°F):** Not Available

**VAPOR DENSITY:** Not Available

**RELATIVE DENSITY:** Not Available

**DENSITY:** Not Available

**SPECIFIC GRAVITY:** 2.13

**SOLUBILITY IN WATER:** 100%

**WEIGHT PER GALLON:** Not Available

**PARTITION COEFFICIENT (n-octanol/water):** Not Applicable

**AUTO-IGNITION TEMPERATURE:** Not Applicable

**DECOMPOSITION TEMPERATURE:** Not Available

**VISCOSITY:** Not Applicable

**VOC g/l / Lb/gal:** Not Available

**9.2 OTHER INFORMATION:**

No additional information available.

### 10. STABILITY and REACTIVITY

**10.1 REACTIVITY:**

This product is not reactive.

**10.2 STABILITY:**

Stable under conditions of normal storage and use.

**10.3 POSSIBILITY OF HAZARDOUS REACTIONS:**

Metal: Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.

Acids / Organic Materials: May cause fire or explosion.

Food Sugars: May react with various sugars to generate carbon monoxide.

Water: Aqueous reaction can generate heat.

**10.4 CONDITIONS TO AVOID:**

Incompatible materials. Excess heat.

**10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:**

Oxidizing agents, strong acids, strong alkalis.

**10.6 HAZARDOUS DECOMPOSITION PRODUCTS:**

No data available.

### 11. TOXICOLOGICAL INFORMATION

**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:**

**TOXICITY DATA:**

Sodium Carbonate	7647-14-5	LD50-Oral, Rat	4090 mg/kg
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**SUSPECTED CANCER AGENT:** Ingredients within this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be, or suspected to be, cancer-causing agents by these agencies.

**IRRITANCY OF PRODUCT:** This product may be irritating to skin, eyes and respiratory system.

**SENSITIZATION TO THE PRODUCT:** This product does not contain an ingredient that is considered a skin sensitizer.

**REPRODUCTIVE TOXICITY INFORMATION:** No information concerning the effects of this product or its components greater than 0.1% on the human reproductive system are available.

**SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Eyes, Respiratory System, and Skin burns.

**SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** Bronchial irritation with chronic cough, dermatitis to the skin, conjunctivitis to the eyes, and gastrointestinal disturbances.

**ASPIRATION HAZARD:** None

### 12. ECOLOGICAL INFORMATION

**12.1 TOXICITY:**

No toxicity data available.

**12.2 PERSISTENCE AND DEGRADABILITY:**

No specific data available on this product.

**12.3 BIOACCUMULATIVE POTENTIAL:**

No specific data available on this product.

**12.4 MOBILITY IN SOIL:**

No specific data available on this product.

**12.5 RESULTS OF PBT AND vPvB ASSESSMENT:**

No specific data available on this product.

**12.6 OTHER ADVERSE EFFECTS:**

No specific data available on this product.

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

**12.7 WATER ENDANGERMENT CLASS:**

Water endangering in accordance with EU Guideline 91/155-EWG. Not determined

### 13. DISPOSAL CONSIDERATIONS

#### **13.1 WASTE TREATMENT METHODS:**

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

#### **13.2 EU Waste Code:**

Not determined

### 14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

**U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:** This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

**14.1 PROPER SHIPPING NAME:** Sodium Hydroxide, Solid

**14.2 HAZARD CLASS NUMBER and DESCRIPTION:** Class 8, Corrosive

**14.3 UN IDENTIFICATION NUMBER:** UN1823

**14.4 PACKING GROUP:** II

**14.5 DOT LABEL(S) REQUIRED:** Corrosive

**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER:** 1823

**RQ QUANTITY:** 1000 lbs

**14.6 MARINE POLLUTANT:** None of the components of this product are designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

#### **14.7 SPECIAL PRECAUTIONS FOR USER:**

None

#### **14.8 INTERNATIONAL TRANSPORTION:**

**INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA):** This product is considered as dangerous goods.

**INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO):** This product is considered as dangerous goods.

#### **14.9 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND IBC CODE:**

**EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):** This product is considered by the United Nations Economic Commission for Europe to be dangerous goods.

### 15. REGULATORY INFORMATION

#### **15.1 UNITED STATES REGULATIONS:**

**U.S. SARA REPORTING REQUIREMENTS:** The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** None

**U.S. TSCA INVENTORY STATUS:** The components of this product are listed on the TSCA Inventory or are exempted from listing.

**OTHER U.S. FEDERAL REGULATIONS:** None

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** Ingredients within this product are not on the Proposition 65 Lists:

#### **15.2 CANADIAN REGULATIONS:**

**CANADIAN DSL/NDL INVENTORY STATUS:** The components of this product are on the DSL Inventory, or are exempted from listing.

**OTHER CANADIAN REGULATIONS:** Not applicable.

#### **CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** This product is Class E, Corrosive Material, per WHMIS Controlled Product Regulations.

### **15.3 EUROPEAN ECONOMIC COMMUNITY INFORMATION:**

This product does meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.  
See Section 2 for full Details.

### **15.4 AUSTRALIAN INFORMATION FOR PRODUCT:**

The components of this product are listed on the International Chemical Inventory list.

### **15.5 JAPANESE INFORMATION FOR PRODUCT:**

#### **JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:**

The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

#### **JAPANESE ENCS INVENTORY:**

The components of this product are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.

#### **POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW:**

No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

### **15.6 INTERNATIONAL CHEMICAL INVENTORIES:**

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac: Listed or Exempt from listing

Australian Inventory of Chemical Substances (AICS): Listed or Exempt from listing

Korean Existing Chemicals List (ECL): Listed or Exempt from listing

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed or Exempt from listing

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed or Exempt from listing

Swiss Giftliste List of Toxic Substances: Listed or Exempt from listing

U.S. TSCA: Listed or Exempt from listing

## 16. OTHER INFORMATION

**PREPARED BY:** Chris Eigbrett – (**MSDS to GHS Compliance**)

**DATE OF PRINTING:** October 19, 2015

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**END OF SDS SHEET**