

# Twin Pro Industrial Safety Data Sheet

## 1.) IDENTIFICATION:

**Product Name:** Granular Drain Opener  
**Other Means of Identification:** None  
**Product Use and restrictions on use:** powdered drain cleaner  
**Initial Supplier Identifier:** Twin Industrial Holdings Ltd.  
O/A Twin Pro Industrial  
3203 Giffen Road  
Lethbridge, AB  
T1H 0E8  
403-329-4878  
**Prepared by** Twin Pro Industrial  
**Emergency Phone** CANUTEC at 1-613-996-6666

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## 2.) HAZARDS IDENTIFICATION

### GHS Classification

Corrosive to Metal Category 1  
Skin corrosion Category 1A  
Serious eye Damage Category 1

### Pictograms



### Signal Word

Danger

### Hazard Statement

H290 - May be corrosive to metals  
H314 - Causes severe skin burns and eye damage

### Precautionary Statements

P234 - Keep only in original container  
P260 - Do not breathe dust or mist  
P264 - Wash skin thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do not induce vomiting  
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water / shower  
P304 + P340 + P310 - 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.  
P305 + P351 + P338 + P310 - 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.  
P360 - Wash contaminated clothing before reuse.  
P390 - Absorb spillage to prevent material damage.  
P405 - Store locked up  
P501 - Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

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### 3.) COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Weight %</b>	<b>Unique Identifiers</b>
Sodium Hydroxide	1310-73-2	90 – 100	Not Available
Sodium Carbonate	497-19-8	0 – 5	Not Available
Sodium chloride (NaCl)	7647-14-5	0 – 5	Not Available

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### 4.) FIRST AID MEASURES

<b>Inhalation:</b>	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician. Give oxygen or artificial respiration if needed.
<b>Skin Contact:</b>	Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. If on skin, rise well with water. If on clothes, remove clothes.
<b>Eye Contact:</b>	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
<b>Ingestion:</b>	Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
<b>Additional Information</b>	Provide general supportive measures (comfort, warmth, rest) Move out of dangerous area. Show safety data sheet to the doctor in attendance. Do not leave victim unattended. Treat symptomatically.

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### 5.) FIRE – FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use an extinguishing media appropriate for surrounding fire.
<b>Unsuitable extinguishing Media</b>	High volume water jet, water.
<b>Specific Hazards arising from The hazardous product</b>	Do not allow run-off from fire fighting to enter drains or water courses. Heat generated when contacted with water may raise the temperature of combustible materials to above their auto ignition temperature thereby causing combustion. In emergency situations, water and/or water-based foam can be used; the amount should be large enough to overcome heat and acid build-up. The use of water should be based on a careful evaluation by a knowledgeable person.
<b>Specific Extinguishing Methods</b>	Use water spray to cool unopened containers.
<b>Hazardous combustion Products</b>	Sodium oxides
<b>Further Information</b>	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
<b>Special Protective Equipment For Fire-Fighters</b>	Wear self-contained breathing apparatus for fire-fighting if necessary.

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## 6.) ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions/ Protective Equipment/ Emergency Procedures</b>	Use personal protective equipment Avoid dust formation Avoid breathing dust
<b>Environmental precautions:</b>	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
<b>Methods and Materials for containment And Cleaning Up</b>	Neutralize the acid. Keep in suitable, closed containers for disposal

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## 7.) HANDLING AND STORAGE

<b>Precautions for Safe Handling:</b>	Avoid formation of respirable particles. Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
<b>Conditions for Safe Storage:</b>	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

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## 8.) EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

<u>CAS-No.</u>	<u>Components</u>	<u>Value Type (Form of Exposure)</u>	<u>Control parameters Permissible concentration</u>	<u>Basis</u>
1310-73-2	Sodium Hydroxide	C	2 mg/m <sup>3</sup>	ACGIH
		C	2 mg/m <sup>3</sup>	NIOSH REL
		TWA	2 mg/m <sup>3</sup>	OSHA Z-1
		C	2 mg/m <sup>3</sup>	OSHA P0

<b>Respiratory Protection:</b>	No Personal respiratory protective equipment normally required. In the case of dust or aerosol formation use respirator with an approved filter.
<b>Hand protection:</b>	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
<b>Eye Protection:</b>	Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.
<b>Skin &amp; Body Protection:</b>	Dust impervious protective suit. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
<b>Hygiene Measures:</b>	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of the workday.

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## 9.) PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

<b>Physical state</b>	Solid
<b>Color</b>	White with grey flakes
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not Available

**Property**

<b>pH</b>	13 @ 0.5%
<b>Melting Point/Freezing Point</b>	323° C (613°F)
<b>Initial Boiling Point and Boiling Range</b>	1,388°C (2,530°F)
<b>Flash Point</b>	Not Applicable
<b>Evaporation Rate</b>	Not Available
<b>Flammability</b>	Not Available
<b>Upper Flammable Limit</b>	Not Applicable
<b>Lower Flammable limit</b>	Not Applicable
<b>Vapor Pressure (mm Hg, 20°C)</b>	<0.001 mmHg at 20°C (68°F)
<b>Vapor Density (Air=1)</b>	Not Available
<b>Relative Density</b>	2.13 @ 25°C (77°F)
<b>Solubility (ies)</b>	1,110 g/l completely soluble
<b>Partition Coefficient: n-octanol/water</b>	Not Available
<b>Auto-ignition Temperature</b>	Not Available
<b>Decomposition Temperature</b>	Not Available

**10.) STABILITY AND REACTIVITY**

<b>Reactivity:</b>	Exothermic reaction with acids
<b>Stability:</b>	Stable under normal conditions
<b>Possibility of Hazardous Reactions:</b>	Gives off hydrogen by reaction with metals. Heat is generated when mixed with water. Spattering and boiling can result. A reaction accompanied by large heat release occurs when the product is mixed with acids. Heat generated may be sufficient to cause vigorous boiling creating a hazard due to splashing or splattering of hot material
<b>Conditions to Avoid:</b>	Heat. Exposure to moisture.
<b>Incompatible materials:</b>	Alkalis, Formaldehyde, Metals, Nitriles, Organic materials, Phosphorus, Reducing agents, Strong acids, Strong oxidizing agents, Water, Zinc
<b>Hazardous decomposition products:</b>	Sodium oxides

**11.) TOXICOLOGICAL PROPERTIES****Acute Toxicity****Product:**

**Acute oral toxicity:** Acute toxicity estimate: >5,000 mg/kg

<b>Component</b>	<b>Oral LD<sub>50</sub></b>	<b>Dermal LD<sub>50</sub></b>	<b>Inhalation LC<sub>50</sub></b>
Sodium Hydroxide	Not Available	Not Available	Not Available
Sodium Carbonate	2800 mg/kg (rat, male and female)	>2000 mg/kg(rabbit)	2300 ppm (rat, mail) 2hr
Sodium Chloride (NaCl)	3550 mg/kg (rat, male)	>10,000 mg/kg (rabbit)	>42,000 mg/l (rat, mail) 1hr

<b>Skin Corrosion/Irritation</b>	Extremely corrosive and destructive to tissue
<b>Serious eye damage/eye irritation</b>	Risk of serious damage to eyes
<b>Respiratory or skin sensitization</b>	Did not cause sensitization on laboratory animals
<b>Germ Cell Mutagenicity:</b>	Tests on bacterial or mammalian cell cultures did not show mutagenic effects
<b>Carcinogenicity</b>	This information is not available. Carcinogenicity classification not possible from current data
<b>Reproductive toxicity</b>	No data Available
<b>STOT – Single Exposure</b>	No data Available
<b>STOT – Repeated Exposure</b>	No data Available
<b>Repeated dose toxicity</b>	This information is not available. Assessment: Causes severe skin burns and eye damage. Causes severe digestive tract burns. Corrosive to respiratory system. The product causes burns of eyes, skin and mucous membranes.
<b>Aspiration Toxicity</b>	Corrosive to the respiratory tract. No aspiration toxicity classification for any component
<b>Further Information</b>	Not Available

## 12.) ECOLOGICAL INFORMATION

<b>Component</b>	<b>Toxicity to Algae</b>	<b>Toxicity to Fish</b>	<b>Toxicity to Daphnia and Other Aquatic Invertebrates</b>
Sodium Hydroxide	Not Available	LC50 (Gambusia affinis (Mosquito fish)): 125 mg/l Exposure time: 96 h	EC50 (Daphnia magna (Water flea)): 40.38 mg/l Exposure time: 48 h Test type: Immobilization
Sodium Carbonate	Not Available	LC50 (Lepomis macrochirus (bluegill sunfish)): >100 mg/l Exposure time: 96hr Test Type: Static test	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48hr
Sodium Chloride (NaCl)	EC50: 2430 mg/l Exposure time: 120 hr Test Type: Static test Method: OECD test Guideline 201	LC50 (Lepomis macrochirus (bluegill sunfish)): 5840 mg/l Exposure time: 96 hr test type: flow-through test	LC50 (Daphnia magna (Water flea)): 874 mg/l Exposure Time: 48hr test type: static test
<b>Biodegradability</b>	No data Available		
<b>Bioaccumulation</b>	No data Available		
<b>Mobility</b>	No data Available		
<b>Other adverse Effects</b>	No data Available		

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## 13.) DISPOSAL CONSIDERATIONS

**Waste From Residues/Unused Products** Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

**Contaminated Packaging** Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

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## 14.) TRANSPORT INFORMATION

**UN:** 1823  
**UN Proper Shipping Name:** Sodium Hydroxide, Solid  
**Transportation Hazard Class (es):** 8  
**Packing Group:** II  
**Environmental Hazards:** Not Available  
**Special Precautions:** Not Available  
**Transport in Bulk:** Not Available

### TDG

**Other:** Secure containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position

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## 15.) REGULATORY INFORMATION

**OSHA Hazards** Corrosive to skin, severe eye irritant  
**WHMIS Classification** D1B: Toxic Material Causing Immediate and Serious Toxic Effects  
E: Corrosive Material

**Note:** This product listed on this SDS has been classified in accordance with the hazard criteria of the controlled products regulation. This SDS contains all the information required by those regulations.

## **16.) OTHER INFORMATION**

Preparation Date            Feb 2, 2017  
Revised Date:                Feb 2, 2017

**USE THIS NUMBER IN CASE OF DANGEROUS GOODS EMERGENCY:  
CANUTEC 1 (613) 996-6666**

**Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.**

**Attention: Receiver of the chemical goods / SDS coordinator**

Twin Industrial Holdings Ltd. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users.

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