

Twin Pro Industrial Safety Data Sheet

1.) IDENTIFICATION:

Product Name: TWP303 Drain Cleaner
Other Means of Identification: None
Product Use and restrictions on use: Liquid Drain Cleaner
Initial Supplier Identifier: Twin Industrial Holdings Ltd.
O/A Twin Pro Industrial
3203 Giffen Road North
Lethbridge, AB
T1H 0E8
403-329-4878
Emergency Phone CANUTEC at 1-613-996-6666

2.) HAZARDS IDENTIFICATION

GHS-Classification

Skin Corrosion/Irritation Category 1A
Serious Eye Damage/Irritation Category 1

Physical Hazards

Corrosive to Metals Category 1

Signal Word

Danger

Hazards Statement

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

Pictograms



Precautionary Statements

P234 - Keep only in original container
P405 - Store locked up
P260 - Do not breathe mist, vapors, spray.
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves, protective clothing, eye protection, and face protection.
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 - Wash contaminated clothing before reuse
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P390 - Absorb spillage to prevent material damage
P501 - Dispose of contents/container in accordance with all Federal, Provincial, and/or local regulations including the Canadian Environmental Protection Act.

3.) Composition / Information on Ingredients

<u>Chemical Name</u>	<u>Cas Number</u>	<u>Weight %</u>	<u>Unique Identifiers</u>
Sodium Hydroxide	1310-73-2	40 – 60%	Not Available

4.) FIRST AID MEASURES

Inhalation:	If symptoms are experienced, remove source of contamination or move victim to fresh air. Seek immediate medical attention.
Skin Contact/Absorption:	Avoid direct contact. Remove contaminated clothing. Rinse skin with lukewarm, gently flowing water for at least 60 minutes. DO NOT INTERRUPT FLUSHING. Seek immediate medical attention. Completely decontaminate clothing, shoes and leather goods before re-use or discard.
Eye Contact:	Contact lenses should never be worn when working with this product. Flush immediately with water for at least 30 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention.
Ingestion:	NEVER give anything by mouth if victim is rapidly losing consciousness, is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. If vomiting does occur naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Seek immediate medical attention.
Additional Information	Not Available

5.) FIRE – FIGHTING MEASURES

Suitable Extinguishing Media	Product does not burn. Use extinguishing media compatible with sodium hydroxide and appropriate for surrounding fire.
Unsuitable extinguishing Media	Carbon dioxide
Specific Hazards arising from The hazardous product	Closed containers may rupture violently when heated.
Special Protective Equipment For Fire-Fighters	Sodium hydroxide solutions are very corrosive and at high temperatures, decomposition occurs giving off strong, corrosive fumes of sodium oxide. Do not enter without wearing specialized equipment suitable for the situation. Chemical protective clothing and positive pressure self-contained breathing apparatus may be necessary.

6.) ACCIDENTAL RELEASE MEASURES

Personal Precautions/Protective: Equipment/Emergency Procedures	Wear appropriate personal protective equipment. Ventilate area. Only enter with PPE. Stop or reduce leak if safe to do so. Prevent material from entering sewers. Flush with water to remove any residue.
Environmental Precautions:	Prevent material from entering sewers and waterways.
Methods and Material for Containment and Cleaning up	Solutions should be contained by diking with inert material, such as sand or earth. Solutions can be recovered or carefully diluted with water and cautiously neutralized with acids such as acetic acid or hydrochloric acids. Large Spills: contact fire and emergency services.

7.) HANDLING AND STORAGE

Precautions for Safe Handling: This material is corrosive. Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated place. Keep container tightly closed.

8.) EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Sodium Hydroxide	ACGIH	TLV-C	2mg/m ³
	OSHA	PEL-T-TWA	2mh/m ³

Engineering Control(s) Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other: Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

Protective Equipment

Eyes/Face Chemical goggles, full-face shield, or a full-face respirator is recommended to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

Hand Protection Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.

Skin and Body Protection Body suit, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse. Impervious boots of chemically resistant material should be worn at all times. No special footwear is required other than what is mandated at place of work.

Respiratory Protection Any self contained breathing apparatus with a full face piece. Any supplied-air respirator with a full face piece.

Thermal Hazards Not Available

9.) PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state	Liquid
Color	Colorless
Odor	Mild odor
Odor Threshold	Not Applicable

Property

pH	~14
Melting Point/Freezing Point	Not Available
Initial Boiling Point/Boiling Range	Not Available
Flash Point	Not Applicable
Evaporation rate	Not Available

Flammability	Non-Flammable
Lower Flammable/explosive limit	Not Applicable
Upper Flammable/explosive limit	Not Applicable
Vapor pressure	1.5mmHg at 25°C
Vapor density (Air=1)	1.38
Relative density	Not Available
Solubility	Completely miscible
Partition coefficient – N-octanol/water	Not Available
Auto-ignition temperature	Not Applicable
Decomposition temperature	Not Available
Viscosity	Not Available

10.) STABILITY AND REACTIVITY

Reactivity	Sodium hydroxide can react with metals, such as aluminum, tin and zinc to form flammable hydrogen gas.
Stability	Normally stable
Possibility of Hazardous Reactions	Polymerization will not occur.
Conditions to Avoid	Excess heat, incompatible materials
Incompatible Materials	Sodium hydroxide reacts vigorously, violently or explosively with many organic and inorganic chemicals, such as strong acids, acid chlorides, acid anhydrides, ketones, glycols and organic peroxides.
Hazardous decomposition products	Sodium oxide fumes may be generated by thermal decomposition at high temperatures.

11.) TOXICOLOGICAL PROPERTIES

Acute Toxicity

Component	Oral LD₅₀	Dermal LD₅₀	LC₅₀
Sodium Hydroxide	280-680 mg/kg (rat)	2700 mg/kg (rabbit)	Not Available

LD₅₀(intraperitoneal, Mice): 40mg/kg (50%)

Chronic Toxicity – Carcinogenicity

Component	IARC
Sodium Hydroxide	Not considered to be carcinogenic by ACGIH and IARC

Skin Corrosion/Irritation	Corrosive to skin.
Ingestion	Ingestion can result in burns to the lips, tongue, throat, esophagus and stomach: abdominal pain; nausea; vomiting; diarrhea and death
Inhalation:	Inhalation is only likely to occur if an aerosol is formed as sodium hydroxide does not readily form a vapor. Exposure to aerosol may lead to irritation of respiratory tract, inflammation of lungs, difficulty breathing. May cause pulmonary edema.
Serious Eye Damage/Irritation	Corrosive, Capable of producing severe eye burns and permanent injury.
Respiratory or Skin Sensitization	Sodium hydroxide is not known to be a skin sensitizer
Germ Cell Mutagenicity	The available evidence does not suggest that sodium hydroxide is a mutagen.
Reproductive Toxicity	Sodium hydroxide is not known to cause reproductive toxicity.
STOT – Single Exposure	Breathing may result in respiratory irritation.
STOT – Repeated exposure	Not Applicable.
Aspiration Hazard	Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May cause severe pneumonitis and destruction of lung tissue. May cause pulmonary edema
Synergistic Materials	Not Available

12.) ECOLOGICAL INFORMATION

Exotoxicity Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Sodium Hydroxide	Not Available	LC ₅₀ (Gambusia affinis, 96hr 125 mg/L	EC50(ceriodaphnia dubia 48hr): 40.38mg/L
Biodegradability	Not Available		
Bioaccumulation	Does not bioaccumulate		
Mobility	Very mobile in soil and very soluble in water.		
Other Adverse Effects	Toxic to aquatic life through an immediate raise in pH to toxic levels		

13.) DISPOSAL CONSIDERATIONS

Waste From Residues/ Unsold 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.

14.) TRANSPORT INFORMATION

UN Number	UN 1824
UN Proper Shipping Name	Sodium Hydroxide Solution
Transport Hazard Class(es)	8
Packaging Group	II
Environmental Hazards	Not listed as a marine pollutant under Canadian TDG Regulations Schedule 1, Column 10
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

NOTE: This product has been classified in accordance with the hazard criteria of the Canadian controlled products Regulations. This SDS contains all the information required by those regulations.

16.) OTHER INFORMATION

Preparation Date:	March 22, 2017
Revised Date:	March 22, 2017

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.