

# Twin Pro Industrial Safety Data Sheet

## 1.) IDENTIFICATION:

**Product Name:** TWP108 Griddle Pro  
**Other Means of Identification:** None  
**Product Use and restrictions on use:** Oven, Grill and Fryer 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

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## 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  
P280 - Wear Protective gloves/clothing and eye/face protection  
P260 - Do not breathe mist/vapors/spray. Use in a well ventilated area  
P390 - Absorb spillage to prevent material damage  
P363 - Wash contaminated clothing before reuse  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rise skin with water/shower.  
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.  
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

<u>Chemical Name</u>	<u>Cas Number</u>	<u>Weight %</u>	<u>Unique Identifiers</u>
Sodium Hydroxide Solution	1310-73-2	15 – 25%	Not Available

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### 4.) FIRST AID MEASURES

<b>Inhalation:</b>	If symptoms are experienced, remove source of contamination or move victim to fresh air. Seek immediate medical attention.
<b>Skin Contact/Absorption:</b>	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.
<b>Eye Contact:</b>	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.
<b>Ingestion:</b>	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.
<b>Additional Information</b>	Not Available

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### 5.) FIRE – FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Product does not burn. Use extinguishing media compatible with sodium hydroxide and appropriate for surrounding fire.
<b>Unsuitable extinguishing Media</b>	Carbon dioxide
<b>Specific Hazards arising from The hazardous product</b>	Closed containers may rupture violently when heated.
<b>Special Protective Equipment For Fire-Fighters</b>	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.

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### 6.) ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions/Protective: Equipment/Emergency Procedures</b>	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.
<b>Environmental Precautions:</b>	Prevent material from entering sewers and waterways.
<b>Methods and Material for Containment and Cleaning up</b>	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

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## 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.

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## 8.) EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limit(s)

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

**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

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## 9.) PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

<b>Physical state</b>	Liquid
<b>Color</b>	Reddish Brown
<b>Odor</b>	Mild odor
<b>Odor Threshold</b>	Not Applicable

### Property

<b>pH</b>	10.5
<b>Melting Point/Freezing Point</b>	Not Available
<b>Initial Boiling Point/Boiling Range</b>	Not Available
<b>Flash Point</b>	Not Applicable
<b>Evaporation rate</b>	Not Available
<b>Flammability</b>	Non-Flammable

<b>Lower Flammable/explosive limit</b>	Not Applicable
<b>Upper Flammable/explosive limit</b>	Not Applicable
<b>Vapor pressure</b>	Not Available
<b>Vapor density (Air=1)</b>	Not Available
<b>Relative density</b>	Not Available
<b>Solubility</b>	Completely miscible
<b>Partition coefficient – N-octanol/water</b>	Not Available
<b>Auto-ignition temperature</b>	Not Applicable
<b>Decomposition temperature</b>	Not Available
<b>Viscosity</b>	Not Available

## **10.) STABILITY AND REACTIVITY**

<b>Reactivity</b>	Not Available
<b>Stability</b>	Stable under normal conditions
<b>Possibility of Hazardous Reactions</b>	Polymerization will not occur.
<b>Conditions to Avoid</b>	Strong acids, acid chlorides, acid anhydrides, ketones, and organic peroxides.
<b>Incompatible Materials</b>	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.
<b>Hazardous decomposition products</b>	Sodium oxide fumes may be generated by thermal decomposition at high temperatures.

## **11.) TOXICOLOGICAL PROPERTIES**

### **Acute Toxicity**

<b>Component</b>	<b>Oral LD<sub>50</sub></b>	<b>Dermal LD<sub>50</sub></b>	<b>LC<sub>50</sub></b>
Sodium Hydroxide (50%)	280-680 mg/kg (rat)	2700 mg/kg (rabbit)	Not Available

### **Chronic Toxicity – Carcinogenicity**

<b>Component</b>	<b>IARC</b>
Sodium Hydroxide	Not considered to be carcinogenic by ACGIH and IARC

<b>Skin Corrosion/Irritation</b>	Corrosive to skin
<b>Ingestion</b>	Ingestion can result in burns to the lips, tongue, throat, esophagus and stomach: abdominal pain; nausea; vomiting; diarrhea and death
<b>Inhalation</b>	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.
<b>Serious Eye Damage/Irritation</b>	Corrosive. Capable of producing severe eye burns and permanent injury.
<b>Respiratory or Skin Sensitization</b>	Sodium hydroxide is not known to be a skin sensitizer
<b>Germ Cell Mutagenicity</b>	The available evidence does not suggest that sodium hydroxide is a mutagen.
<b>Reproductive Toxicity</b>	Sodium hydroxide is not known to cause reproductive toxicity.
<b>STOT – Single Exposure</b>	Breathing may result in respiratory irritation.
<b>STOT – Repeated exposure</b>	Not Applicable.
<b>Aspiration Hazard</b>	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
<b>Synergistic Materials</b>	Not Available

## 12.) ECOLOGICAL INFORMATION

<b>Exotoxicity 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	LC <sub>50</sub> (Gambusia affinis, 96hr 125 mg/L	EC50(ceriodaphnia dubia 48hr): 40.38mg/L
<b>Biodegradability</b>	Not Available		
<b>Bioaccumulation</b>	Does not bioaccumulate		
<b>Mobility</b>	Very mobile in soil and very soluble in water.		
<b>Other Adverse Effects</b>	Toxic to aquatic life through an immediate raise in pH to toxic levels		

## 13.) DISPOSAL CONSIDERATIONS

<b>Waste From Residues/ Unsued Products</b>	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
<b>Contaminated Packaging</b>	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

## 14.) TRANSPORT INFORMATION

<b>UN Number</b>	UN 1824
<b>UN Proper Shipping Name</b>	Sodium Hydroxide Solution
<b>Transport Hazard Class(es)</b>	8
<b>Packaging Group</b>	II
<b>Environmental Hazards</b>	Not listed as a marine pollutant under Canadian TDG Regulations Schedule 1, Column 10
<b>Special Precautions</b>	Not Available
<b>Transport in Bulk</b>	Not Available
<b><u>TDG</u></b>	
<b>Other</b>	Secure containers (full and or empty) with suitable hold down devises during shipment and ensure all caps, valves, or closures are secured in the closed position.

## 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: Feb 2, 2017  
Revised Date: Feb 2, 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.