Safety Data Sheet

POWERFUL HI-PRESSURE CLEANER

SECTION 1. IDENTIFICATION

Product Identifier	**PRO-60**
Other Identification	4422520
Recommended Use	High pressure cleaner.
Restrictions on Use	All other uses than those indicated on the product label and technical data sheet.
Supplier Identifier	TANSHAW SANITATION INC, 15 Clark St., Welland , ON, L3B 5W6, Tel.: (905) 732-0096 Fax: (905) 732-0686
Emergency Phone No.	Quebec Poison Control Centre (24 hours service) Quebec, (800) 463-5060 (no charge) All other places, (418) 656-8090, CANUTEC, (613) 996-6666 (collect)

SECTION 2. HAZARD IDENTIFICATION

Classification

Corrosive to metals - Category 1; Skin corrosion - Category 1; Serious eye damage - Category 1

Label Elements

Signal Word:
Danger

Hazard Statement(s):
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary Statement(s):
Prevention:
P234 Keep only in original packaging.
P260 Do not breathe dusts or mists.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response:
P390 Absorb spillage to prevent material damage.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 Wash contaminated clothing before reuse.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTRE or doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTRE or doctor.
Storage:
P406 Store in corrosive resistant container with a resistant inner liner.
P405 Store locked up.
Disposal:
P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

Not applicable.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Sodium hydroxide	1310-73-2	10-30	Information not available	Hydroxyde de sodium
Poly(oxy-1,2-ethanediyl), alpha-hydro- omega -hydroxy-, mono-C10-14-alkyl ethers, phosphates	68585-36-4	1-5	Information not available	Information not available

Notes

Concentrations are expressed in % weight/weight.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor.

Skin Contact

Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). If skin irritation or a rash occurs, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Immediately call a Poison Centre or doctor.

Ingestion

Rinse mouth with water. Immediately call a Poison Centre or doctor. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting.

Most Important Symptoms and Effects, Acute and Delayed

Irritation and corrosion: skin (irritation after a few minutes, severe burns, deep ulceration), eyes (disintegration and escharification of the conjunctiva and cornea, edema, ulceration, possibility of permanent opacification of the cornea) ; ingestion: gastrointestinal corrosion, severe pain, bloody vomiting with mucous membrane fragments, diarrhea, laryngeal inflammation (possible choking), possibility of esophageal and gastric perforation, collapse and death; aerosol exposure: skin (multiple small burns with temporary loss of hair), respiratory tract (irritation and possible ulceration of the nasal passages and pulmonary edema).

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use extinguishing agent suitable for surrounding fire. CO2, extinguishing powder or water spray.

Unsuitable Extinguishing Media

With water, it can generate enough heat to ignite combustible materials. Do not use water jets, this would result in spreading the product and expanding the hazardous area.

Specific Hazards Arising from the Product

In the presence of fire, promptly isolate the scene by removing all persons located near the scene of the accident. Take no action involving any personal risk or without suitable training.

Special Protective Equipment and Precautions for Fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Remove or isolate incompatible materials as well as other hazardous materials. Take no action involving any personal risk or without suitable training. Do not touch or walk through spilled material.

Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and Materials for Containment and Cleaning Up

Stop the leak if this involves no risk. Spread containers from the area spill. Approach fumes in the same direction as the wind. Prevent entry into sewers, waterways, basements or areas confined. Eliminate spills at an effluent treatment plant or proceed as follows. Contain leaks and collect them with materials non-combustible absorbents such as sand, earth, vermiculite, earth diatoms. Then place them in a container for disposal in accordance with local regulations. Eliminate through a licensed specialty company. Contaminated absorbent material may pose the same hazard as the spilled material. Note: See Section 1 for emergency information and see Section 13 for waste disposal.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid operations that produce a cloud of dust. Never pour water into this product, for dilution slowly add the product to water with constant stirring. Handle away from incompatible materials. Avoid contact with skin. Wear eye protection and, in case of insufficient ventilation, appropriate respiratory protection. Workers handling or transferring corrosive substances should wear appropriate personal protective equipment. This product is corrosive: if handled or transferred regularly or frequently, eyewash stations or emergency showers must be provided to workers and located in the vicinity of the workstation. Avoid contact lenses when handling the product.

Conditions for Safe Storage

Store in an airtight container in a dry, well ventilated place with corrosion resistant cemented floor. Refer to SRST and NFC Standards for Storage. Keep away from combustible materials and acids. If the product is stored with other hazardous substances, refer to the NFC segregation table. Containers of corrosive substances must be kept closed, clearly marked with their contents, and handled with care. Additional information: This product attacks certain types of plastic, rubber or coating.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	**TWA**	**STEL**	**TWA**	**Ceiling**	**8-hr TWA**	**TWA**
Sodium hydroxide	Not established	2 mg/m3	2 mg/m3	Not established	Not established	Not established
Poly(oxy-1,2-ethanediyl), alpha-hydro- omega -hydroxy-, mono-C10-14-alkyl ethers, phosphates		3 mg/m3				

Appropriate Engineering Controls

The purpose of the Health and Safety Act is to eliminate hazards at the source. Where engineering controls and changes in working procedures are not sufficient to reduce exposure to this substance, the use of personal protective equipment may be necessary. These protective equipment must comply with the regulations.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

Skin Protection

Wear skin protective equipment. The selection of such equipment depends on the nature of the work to be performed.

Respiratory Protection

Wear appropriate respirator when ventilation is inadequate.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Colourless liquid.
Odour	Specific to the ingredients
Odour Threshold	Not available
pH	> 13.0
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.2 - 1.3
Solubility	Very soluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Under normal conditions of storage and use, hazardous reactions will not occur.

Chemical Stability

Normally stable. However, it absorbs carbon dioxide and moisture from the air.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Keep away from freezing and excessive heat.

Incompatible Materials

Sodium hydroxide reacts with water, generating strong heat. Reactive or incompatible with strong acids, reactive metals (zinc, aluminum or tin).

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

This product is irritating and corrosive to the skin, eyes, respiratory tract and digestive tract. The severity of the symptoms may vary depending on the exposure conditions (duration of contact, concentration of the product, etc.).

Likely Routes of Exposure

Skin contact.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Sodium hydroxide		> 2400 mg/kg (rat)	> 2000 mg/kg (rabbit)
Poly(oxy-1,2-ethanediyl), alpha-hydro- omega -hydroxy-, mono-C10-14-alkyl ethers, phosphates	Not available	Not available	Not available

Skin Corrosion/Irritation

Causes severe skin burns.

Serious Eye Damage/Irritation

Contact causes severe burns with redness, swelling, pain and blurred vision. Permanent damage including blindness can result.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May cause irritation to the respiratory tract. The inhalation of droplets suspended in the air or aerosols may cause irritation of the respiratory tract.

Skin Absorption

This product is not absorbed into the body, it exerts a local action that destroys the tissues.

Ingestion

May cause burns to mouth, throat and stomach.

Respiratory and/or Skin Sensitization

Not a respiratory sensitizer. Not a skin sensitizer.

Carcinogenicity

Not known to cause cancer.

Reproductive Toxicity

Development of Offspring

No data on teratogenic effects have been found.

Sexual Function and Fertility

No data on reproductive effects have been found.

Germ Cell Mutagenicity

Not known to be a mutagen.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No known significant effects or critical hazards.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

It is important to minimize or avoid the generation of waste wherever possible. Disposal of this product and solutions must always respect the provisions of the law on environmental protection and waste disposal and must remain in compliance with the requirements of local laws and regulations. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Consult local or regional authorities.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1760	CORROSIVE LIQUID N.S.A. (Sodium hydroxide)	8	III

Special Precautions Please note: Limited quantity when 5L or less.

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification

E - Corrosive

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 the Controlled Products Regulations.

SECTION 16. OTHER INFORMATION

Date of Preparation septembre 26, 2018

Disclaimer Notice to reader and user : The information contained in this document is accurate to the best of our knowledge. however, the above named supplier assumes any liability whatsoever with

respect to the accuracy of the informatoin contained in this document. The finl determination ond suitability of any material or product is the sole responsability of the user. All materials may pose risk and should be used whith caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist .