



BRODI SPECIALTY PRODUCTS LTD.
 3175 14th Avenue, Unit 1
 Markham, Ontario, L3R 0H1
 Canada
 1-877-744-0751

PRODUCT: POWDERFLO

SECTION 01: IDENTIFICATION

Supplier identifier..... BRODI SPECIALTY PRODUCTS LTD.
 3175 14th Avenue, Unit 1
 Markham, Ontario
 Canada
 L3R 0H1
 1-877-744-0751
 Product identifier..... POWDERFLO
 Product code..... BRODI7027
 Emergency telephone number..... CANUTEC 24-hour number (613-996-6666).
 Product use..... Alkaline instant drain opener.

SECTION 02: HAZARD IDENTIFICATION



Hazard classification..... Corrosive to Metals — Category 1 . Acute Toxicity (Dermal) — Category 4. Skin Corrosion — Category 1. Serious Eye Damage — Category 1.
 Signal word..... DANGER.
 Hazard statement..... H290 May be corrosive to metals. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage.
 Precautionary statements..... P280 Wear protective gloves/protective clothing/eye protection/face protection. P234 Keep only in original packaging. P260 Do not breathe dust or mist. P264 Wash thoroughly after handling. 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 or shower. P363 Wash contaminated clothing before reuse. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P406 Store in corrosion resistant container with a resistant inner liner. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.
 Other hazards..... None.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Sodium hydroxide	1310-73-2	70-80
Citric acid, anhydrous	72-92-9	4.5-5
Sodium tripolyphosphate	7758-29-4	3-3.5

SECTION 04: FIRST-AID MEASURES

Routes of exposure
 Inhalation..... If dust from the material is inhaled, remove the affected person immediately to fresh air. . If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Call a physician if symptoms develop or persist.
 Ingestion..... Rinse mouth and then drink plenty of water. Do not induce vomiting. . Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
 Skin contact..... Brush off loose particles from skin. Wash affected area immediately with water for 15 minutes. Remove contaminated clothing and wash before reuse. . Get medical aid.
 Eye contact..... Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical aid.
 Most important symptoms and effects, both acute and delayed . The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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SECTION 05: FIRE-FIGHTING MEASURES

Extinguishing media..... Dry chemical or CO2. Move containers from fire area if you can do it without risk.
 Hazardous combustion products..... Non-combustible. Releases of sulfur dioxide at extremely high temperatures.
 Special protective equipment and precautions Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.
 Sensitivity to static discharge..... Product is not sensitive to static discharge.
 Sensitivity to mechanical impact..... Product is not sensitive to mechanical impact.
 Further information..... Generates heat upon addition of water, with possibility of spattering. Reacts with most metals, especially when dilute : hydrogen gas release (extremely flammable, explosive).

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Eliminate all sources of ignition. Wear protective equipment: goggles, chemically resistant clothing and gloves, and appropriate respirator if in a confined area.
 Environmental precautions..... Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods. Do not discharge into drains/surface waters/groundwater.
 Methods and materials for containment and cleaning up Cover with plastic sheet to prevent spreading. Pick up wipe and place into an appropriate container for disposal.

SECTION 07: HANDLING AND STORAGE

Handling precautions..... Read label on container before using. Do not inhale dusts. Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product. .
 Storage needs..... Keep container closed when not in use.
 Materials to avoid..... Keep in a dry, cool and well-ventilated place. Keep containers tightly closed when not in use.
 Keep away from strong acids. Keep away from oxidizing agents. Avoid exposure to water and moisture.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV		PEL	OSHA PEL		REL	NIOSH
	TWA	STEL		PEL	STEL		
Sodium hydroxide	no data available	2 mg/m3 (Ceiling)	no data available	no data available	2 mg/m3 (Ceiling)		
Citric acid, anhydrous	not available	not available	not available	not available	not available	not available	
Sodium tripolyphosphate	10 mg/m3	not available	not available	not available	not available	not available	
Engineering controls.....	Emergency showers and eye wash stations should be available. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.						
Individual protection measures							
Eye/type.....	Safety glasses with side-shields.						
Gloves/ type.....	Wear chemical resistant protective gloves.						
Respiratory/type.....	Generally not required. Wear respiratory protection if ventilation is inadequate.						
Hygiene measures.....	Handle in accordance with good industrial hygiene and safety practice. Wear clean long legged, long sleeved work clothes.						

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance..... powder.
 Color..... orange.
 Odour..... citrus.
 Odour threshold..... no data available.
 pH..... 14.
 Melting point (°C)..... no data available.
 Freezing point (°C)..... no data available.
 Initial boiling point (°C)..... no data available.
 Flash point (°C), Method..... no data available.
 Evaporation rate..... no data available.
 Upper flammability limit (% vol)..... no data available.
 Lower flammability limit (% vol)..... no data available.
 Vapour pressure (mm Hg)..... no data available.
 Vapour density (air=1)..... no data available.
 Relative density/Specific Gravity..... no data available.
 Water solubility..... soluble.
 Solubility in other solvents..... no data available.
 Partition coefficient — n-octanol/water..... no data available.
 Auto ignition temperature (°C)..... no data available.

PRODUCT: POWDERFLO**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Thermal decomposition temperature..... no data available.
 Viscosity..... not applicable.

SECTION 10: STABILITY AND REACTIVITY

Reactivity..... No hazardous reactions if stored and handled as prescribed/indicated.
 Chemical stability..... The product is stable if stored and handled as prescribed/indicated.
 Possibility of hazardous reactions..... No hazardous reactions when stored and handled according to instructions. The product is chemically stable.
 Conditions to avoid..... Avoid exposure to water and moisture. Contact with incompatible materials.
 Incompatible materials..... Acids, soft metals.
 Hazardous decomposition products..... No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Sodium hydroxide	no data available	1350 mg/kg (dermal, rabbit)
Citric acid, anhydrous	not available	5,400 mg/kg (oral-rat);
Sodium tripolyphosphate	not available	2,000 mg/kg (oral-rat); 4,640 mg/kg (dermal-rabbit)
Routes of exposure		
Inhalation.....	May cause irritation.	
Ingestion.....	Ingestion may cause pain, irritation and burns in the mouth, throat and stomach.	
Skin contact.....	Corrosive: severe skin burns, scars.	
Eye contact.....	Eye contact may cause severe burns and permanent corneal injury. May be followed by blindness.	
Acute effects		
Acute oral toxicity.....	Acute toxicity estimate > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single ingestion.	
Acute dermal toxicity.....	Acute toxicity estimate: > 1,000 mg/kg and < 2,000 mg/kg. Harmful in contact with skin. Method: calculation method.	
Acute inhalation toxicity.....	Acute toxicity estimate : > 5 mg/l. Method: calculation method. Test atmosphere: dust/mist. Exposure time: 4 h. Virtually nontoxic by inhalation.	
Skin corrosion/irritation.....	Result: Skin corrosion.	
Serious eye damage/eye irritation.....	Result: Corrosive to eyes.	
Respiratory or skin sensitisation.....	Non-sensitizing.	
Specific target organ toxicity (STOT) single exposure	Based on the available information there is no specific target organ toxicity to be expected after a single exposure.	
Aspiration hazard.....	No aspiration hazard expected.	
Chronic toxicity/effects		
Specific target organ toxicity (STOT) repeated exposure	No known significant effects or critical hazards.	
Carcinogenicity.....	No carcinogenic substances as defined by IARC, NTP, OSHA and/or ACGIH.	
Reproductive toxicity.....	No known significant effects or critical hazards.	
Germ Cell Mutagenicity.....	No known significant effects or critical hazards.	
Remarks.....	The product has not been tested. The statement has been derived from the properties of the individual components.	
Symptoms of Exposure.....	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity..... May cause long-term adverse effects in the aquatic environment.
 Persistence and degradability..... No data available.
 Bioaccumulative potential..... No data available.
 Mobility in soil..... No data available.
 Other adverse effects..... No applicable information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods

Waste disposal of substance..... Dispose of in accordance with national, state and local regulations.
 Container disposal Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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SECTION 14: TRANSPORT INFORMATION

TDG classification..... UN1759, Corrosive solid, n.o.s. (sodium hydroxide), Class 8, PGII.

SECTION 15: REGULATORY INFORMATION

WHMIS regulatory status..... This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015). This product is WHMIS 2015 controlled.

SECTION 16: OTHER INFORMATION

Disclaimer..... The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

Prepared by: CanChem Consultant

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