

## SAFETY DATA SHEET

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

PRODUCT: BROSHOT

## 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..... BROSHOT  
Product code..... BRODI6290  
Emergency telephone number..... CANUTEC 24-hour number (613-996-6666).  
Product use..... Liquid drain opener with odour control.

## SECTION 02: HAZARD IDENTIFICATION



Hazard classification..... Flammable Liquids — Category 4. Corrosive to Metals — Category 1. Acute Toxicity (Oral) — Category 4. Acute Toxicity (Inhalation) — Category 2. Skin Corrosion — Category 1. Serious Eye Damage — Category 1. Carcinogenicity - Category 1. Reproductive Toxicity — Category 2. Specific target organ toxicity - single exposure - Category 3 (Respiratory system). Specific Target Organ Toxicity — Repeated Exposure — Category 2 (liver, kidney).

Signal word..... DANGER.

Hazard statement..... H227 Combustible liquid. H290 May be corrosive to metals. H330 Fatal if inhaled. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H350 May cause cancer by mist inhalation. . H335 May cause respiratory irritation. H361 Suspected of damaging fertility or the unborn child.

Precautionary statements..... P210 Keep away from flames and hot surfaces. – No smoking. P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P234 Keep only in original packaging. P260 Do not breathe mist/vapours/spray. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P284 Wear respiratory protection. P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash thoroughly after handling. P370+P378: In case of fire: Use dry chemical or carbon dioxide to extinguish. P308+P313 IF exposed or concerned: Get medical advice/attention. 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. P310 Immediately call a POISON CENTER or doctor/physician. 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. P310 Immediately call a POISON CENTER or doctor/physician. P403+P233 Store in a well-ventilated place. Keep container tightly closed. 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. %
Sulfuric acid	7664-93-9	94-96
1,2-Dichlorobenzene	95-50-1	4-6

**PRODUCT: BROSHOT****SECTION 04: FIRST-AID MEASURES**

Routes of exposure	
Inhalation.....	Keep patient calm, remove to fresh air, seek medical attention. Assist in breathing if necessary.
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.....	Rinse with soap and water. Get medical attention. Completely decontaminate clothing, shoes and leather goods before reuse or discard. .
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. Obtain medical attention immediately.
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.
Medical attention and special treatment.....	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved. Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**SECTION 05: FIRE-FIGHTING MEASURES**

Extinguishing media.....	Dry chemical or CO2. Move containers from fire area if you can do it without risk.
Flammability.....	Combustible, upper phase only.
Hazardous combustion products.....	Carbon monoxide, carbon dioxide, hydrocarbons. Oxides of sulphur. .
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.....	Reacts with most metals, especially when dilute : hydrogen gas release (extremely flammable, explosive). . Reactive material. Can ignite if coming in contact with oxidizing or reducing materials. . Generates heat upon addition of water, with possibility of spattering.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	Use with proper ventilation. If inhalation off mist is likely, use high efficiency air respirator. . Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Restrict access to area until completion of clean up. Evacuate personnel to safe areas. Ensure clean up is conducted by trained personnel only. .
Environmental precautions.....	If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. Ventilate the area. Prevent further leakage or spillage if safe to do so. . Do not discharge into drains/surface waters/groundwater.
Methods and materials for containment and cleaning up	Stop leak. Dike and contain spill. Neutralize spill with sodium bicarbonate. For residues: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Contaminated absorbent material may pose the same hazards as the spilled product. . Notify the appropriate authorities as required.

**SECTION 07: HANDLING AND STORAGE**

Handling precautions.....	Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product. . Do not get in eyes, on skin or on clothing. Avoid inhalation of mists/vapours/fumes. Wash thoroughly after handling. Keep container tightly closed. .
Storage needs.....	Keep in a dry, cool and well-ventilated place. Keep containers tightly closed when not in use. Protect container from physical damage.
Materials to avoid.....	Keep away from strong bases. Do not mix with other chemicals or cleaners. Avoid exposure to water and moisture.

**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Sulfuric acid	0.2 mg/m3	not available	1 mg/m3	not available	1 mg/m3
1,2-Dichlorobenzene	25 ppm	50 ppm	25 ppm	50 ppm	25 ppm
Engineering controls.....	Good general ventilation (typically 10 air changes per hour) should be used. . Emergency showers and eye wash stations should be available.				
Individual protection measures					
Eye/type.....	Full-length face shield/chemical splash goggles combination.				
Gloves/ type.....	Acid-proof gauntlet gloves.				

**PRODUCT: BROSHOT****SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Respiratory/type.....	Respiratory protection is required when there is a potential for airborne exposures in excess of applicable limits. When required wear NIOSH/MSHA approved respiratory protection.
Clothing/type.....	Wear clean long legged, long sleeved work clothes.
Hygiene measures.....	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapor or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Remove soiled clothing and wash it thoroughly before reuse. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance.....	liquid (biphasic) .
Color.....	brown.
Odour.....	pungent odour.
Odour threshold.....	no data available.
pH.....	<1.
Melting point (°C).....	not applicable.
Freezing point (°C).....	-35.
Initial boiling point (°C).....	193.
Flash point (°C), Method.....	68.
Evaporation rate.....	no data available.
Upper flammability limit (% vol).....	12.
Lower flammability limit (% vol).....	2.
Vapour pressure (mm Hg).....	1.15 .
Vapour density (air=1).....	> 1.
Relative density/Specific Gravity.....	1.73.
Water solubility.....	soluble.
Solubility in other solvents.....	no data available.
Partition coefficient — n-octanol/water.....	no data available.
Auto ignition temperature (°C).....	640.
Thermal decomposition temperature.....	no data available.
Viscosity.....	no data available.

**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.....	Reacts violently with water, organic substances and base solutions with evolution of heat and hazardous mists. Reacts with most metals, especially when dilute : hydrogen gas release (extremely flammable, explosive). .
Conditions to avoid.....	Avoid heating this substance. Do not mix with other chemicals.
Incompatible materials.....	Vigorous reactions with : water ; alkaline solutions ; metals, metal powder; strong oxidizing, reducing, or combustible organic materials. .
Hazardous decomposition products.....	Possibility of decomposition if heated and in contact with sources of ignition. Release of toxic gases and vapours (sulfur oxides (SO <sub>2</sub> , SO <sub>3</sub> )).

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Sulfuric acid	0.255 mg/l (Inhalation-rat, 4H)	2,140 mg/kg (oral-rat)
1,2-Dichlorobenzene	14 mg/l (inhalation-rat, 4H)	500 mg/kg (oral-rat); 10,000 mg/kg (dermal-rabbit)
Routes of exposure		
Inhalation.....	Very dangerous in case of inhalation at high concentrations (mists) : May produce severe irritation of respiratory tract (coughing, shortness of breath, choking).	
Ingestion.....	Contact will likely cause burns with permanent scars to mouth, throat, stomach. Ingestion of significant amount will cause death.	
Skin contact.....	Contact can cause 3rd degree burns with severe tissue damage. .	
Eye contact.....	Contact can cause burns, severe corneal damage and permanent loss of vision. .	
Acute effects		
Acute oral toxicity.....	Acute toxicity estimate > 300 and < 2,000 mg/kg. Harmful if swallowed. Method: calculation method.	
Acute dermal toxicity.....	LD50 (Rabbit) : > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single skin contact.	
Acute inhalation toxicity.....	>0.05 and <= 0.5 mg/l mists. Exposure time: 4 h. Fatal if inhaled. Method: calculation method.	
Skin corrosion/irritation.....	Result: Skin corrosion.	

**PRODUCT: BROSHOT****SECTION 11: TOXICOLOGICAL INFORMATION**

Serious eye damage/eye irritation.....	Result: Corrosive to eyes.
Respiratory or skin sensitisation.....	Non-sensitizing.
Specific target organ toxicity (STOT) single exposure	May produce severe irritation of respiratory tract: coughing, shortness of breath, choking.
Aspiration hazard.....	No aspiration hazard expected.
Chronic toxicity/effects	
Specific target organ toxicity (STOT) .....	Absorption of 1,2-Dichlorobenzene by inhalation and/or repeated skin contact may cause injury to liver and kidney.
repeated exposure	
Carcinogenicity.....	Strong inorganic acid mists containing sulfuric acid: PROVEN (Human, Group 1, IARC).
Reproductive toxicity.....	May cause adverse reproductive effects. Possible risk of harm to the unborn child.
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.....	Very toxic to aquatic life with long lasting effects.
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.

**SECTION 14: TRANSPORT INFORMATION**

TDG classification.....	UN1830, Sulfuric acid with more than 51 % acid, Class 8, PGII.
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**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.
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**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
Preparation date.....	MAR 06/2017