



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

**PRODUCT: BRAM**

**CODE: 6454**

**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..... BRAM  
 Product code..... 6454  
 Emergency telephone number..... CANUTEC 24-hour number (613-996-6666).  
 Product use..... Garage floor cleaner.

**SECTION 02: HAZARD IDENTIFICATION**



Hazard classification..... Corrosive to Metals — Category 1 . Skin Corrosion — Category 1. Serious Eye Damage — Category 1. Skin Sensitizer — Category 1. Reproductive Toxicity — Category 2. Specific Target Organ Toxicity - Single Exposure - Category 3 (irritation).  
 Signal word..... DANGER.  
 Hazard statement..... H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H361 Suspected of damaging fertility or the unborn child. H335 May cause respiratory irritation.  
 Precautionary statements..... 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 dust/vapours. P271 Use only outdoors or in a well-ventilated area. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P272 Contaminated work clothing should not be allowed out of the workplace. P390 Absorb spillage to prevent material damage. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P310 Immediately call a POISON CENTER or doctor/physician. 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. P321 Specific treatment (see section 4 of SDS). 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. P308+P313 IF exposed or concerned: Get medical advice/attention. P406 Store in corrosion resistant container with a resistant inner liner. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.  
 Other hazards..... None.  
 Supplemental Information..... Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

**SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENTS	CAS #	WT. %
Sodium carbonate	497-19-8	20-25
Sodium metasilicate pentahydrate	6834-92-0	15-20
Alcohols, C12-15, ethoxylated	68131-39-5	2-3
Sodium hydroxide	1310-73-2	1-1.5
Pine oil	8002-09-3	0.3-0.5
2-Butoxyethanol	111-76-2	0.3-0.5

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**SECTION 04: FIRST-AID MEASURES**

Routes of exposure  
 Inhalation..... If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately. Call a poison center or physician.  
 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. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. 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. Treat symptomatically. Symptoms may be delayed.

**SECTION 05: FIRE-FIGHTING MEASURES**

Extinguishing media..... Not flammable. Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish.  
 Hazardous combustion products..... Carbon monoxide, carbon dioxide, hydrocarbons, metal oxides.  
 Special protective equipment and precautions for firefighters..... 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. 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 Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Wet sweep or vacuum spill. Use approved industrial vacuum cleaner for removal. Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water.

**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 . Keep container closed when not in use.  
 Storage needs..... Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up.  
 Materials to avoid..... Keep away from strong acids. Avoid exposure to water and moisture.

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

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Sodium carbonate	not available				
Sodium metasilicate pentahydrate	not available				
Alcohols, C12-15, ethoxylated	not available				
Sodium hydroxide	no data available	2 mg/m3 (Ceiling)	no data available	no data available	2 mg/m3 (ceiling)
Pine oil	not available				
2-Butoxyethanol	20 ppm	not available	50 ppm	not available	not available

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

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. Do not eat, drink, smoke or use cosmetics while working with this product.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance..... granular.

Color..... yellow.

Odour..... pine.

Odour threshold..... no data available.

pH..... 12 @ 1% in water.

Melting point (°C)..... no data available.

Freezing point ( °C)..... no data available.

Initial boiling point ( °C)

Flash point (°C), Method..... not applicable.

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.

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 carbonate	not available	2,390 mg/kg (oral-rat); >2,000 mg/kg (dermal-rabbit)
Sodium metasilicate pentahydrate	not available	670 mg/kg (oral - rat); > 5,000 mg/kg (Dermal -rabbit)
Alcohols, C12-15, ethoxylated	not available	1,650-2,000 mg/kg (oral-rat); >2,000 mg/kg (dermal-rabbit)
Sodium hydroxide	no data available	1350 mg/kg (dermal, rabbit)
Pine oil	367 mg/l (Inhalation-rat)	4,300 mg/kg (oral-rat); 4,500 mg/kg (dermal-rabbit)
2-Butoxyethanol	2.2 mg/l (Inhl-rat, 4 h)	530 mg/kg (oral-rat); 450 mg/kg (dermal-rabbit)
Routes of exposure		
Inhalation.....	Dust particles may cause irritation of the respiratory tract.	
Ingestion.....	Contact will likely cause burns with permanent scars to mouth, throat, stomach. Ingestion of significant amount will cause death.	
Skin contact.....	Corrosive: severe skin burns, scars.	
Eye contact.....	Contact can cause burns, severe corneal damage and permanent loss of vision.	
Acute effects		

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**SECTION 11: TOXICOLOGICAL INFORMATION**

Acute oral toxicity.....	Acute toxicity estimate > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single ingestion.
Acute dermal toxicity.....	LD50 (Rabbit) : > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single skin contact.
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.....	Assessment of sensitization: Contains a known or suspected skin sensitizer. Repeated or prolonged contact may cause skin sensitization .
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) repeated exposure	No known significant effects or critical hazards.
Carcinogenicity.....	No carcinogenic substances as defined by IARC, NTP, OSHA and/or ACGIH.
Reproductive toxicity.....	2-Butoxyethanol is considered fetotoxic; has caused toxic reproductive effects in laboratory animals at maternally toxic doses .
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.

**SECTION 14: TRANSPORT INFORMATION**

TDG classification.....	UN3262, Corrosive solid, basic, inorganic, n.o.s. (sodium metasilicate), Class 8 , PGIII.
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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.....	AUG 10/2017