

SAFETY DATA SHEET

Bro-Krak (Part A)

Section 1: Product and Company Identification

Product Name: Bro-Krak (Part A)
Product Use: Interior/Exterior Concrete Floor Coating
Manufacturer: Brodi Specialty Products Ltd
1-3175 14th Ave, Markham ON, L3R 0H1 CANADA
Emergency Tel No: 613 996 6666

Section 2: Hazard Identification

GHS Hazards Pictograms:



Signal Word: Warning

Hazard Classification: Skin Sensitizer.

Hazard Statement(s):

H412: Harmful to the aquatic life with long lasting effects.
H317: May cause an allergic skin reaction.

Precautionary Statements:

Prevention:

P261: Avoid breathing dust, fume, gas, mist, vapors, and spray.
P271: Use only outdoors or in a well ventilated area.
P280: Wear protective gloves, protective clothing, eye protection, and face protection.
P370 + P378: In case of fire, use dry chemical, CO2 or "alcohol foam" to extinguish.
P303 + P361 + P353: IF on SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P301 + P331 + P310: IF SWALLOWED: Rinse mouth, do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.
P305 + P351: IF IN EYES: Rinse cautiously with water for several minutes.
P332 + P313: If skin irritation occurs, get medical advice/attention.
P337 + P313: If eye irritation persists get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P235: Keep cool.
P501: Dispose of contents/container in accordance to federal rules, laws and regulations.

Section 3: Composition/Information on Ingredients

Components	%	CAS #
Aspartic Acid, N, N'-(Methylenedi-4, 1-Cyclohexanediyl) Bis-,1,1',4,4'-Tetraethyl Ester	100	136210-30-5

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Section 4: First Aid Measures

Inhalation: Remove the person to fresh air. Give artificial respiration if breathing has stopped. Oxygen may be given if breathing is difficult. Seek medical attention.

Skin: Cleanse skin thoroughly with plenty of soap and water. Remove contaminated clothing and wash before re-use. Call a physician if necessary.

Eye: Immediately flush eyes thoroughly for at least 15 minutes. Use fingers to separate eyelids to ensure adequate irrigation. Seek medical attention.

Ingestion: Give the person 2 glasses of water for dilution. Do not induce vomiting unless under instruction by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Carbon dioxide (CO₂). Dry chemical powder. Foam.

Unsuitable Extinguishing Media: High volume water jet.

Fire Fighting Instructions: Cool fire-exposed containers using water spray. Evacuate area of unprotected personnel. Use full protective apparel and self contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Fire/Explosion Hazards: Closed containers may forcibly rupture under extreme heat.

Hazardous combustion products: Carbon oxides. Nitrogen oxides (NO_x). Other potentially toxic fumes.

Section 6: Accidental Release Measures

Personal Precautions: Use proper protective equipment. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks or flames) in the immediate area. Prevent further leakage or spillage if you can do so without risk.

Environmental Precautions: Do not contaminate lakes, streams, ponds, groundwater or soil. Follow local, provincial, and federal laws and regulations.

Method of Clean-up/Containment: Contain spill with dike if necessary. Absorb in suitable inert material. Sweep or scoop up using non-sparking tools. Place into a suitable container for disposal. After removal, flush area with soap and water to remove trace residue.

Section 7: Handling and Storage

Handling Procedures: Avoid contact with eyes, skin and clothing. Avoid inhalation and use protective equipment with adequate ventilation. Wash thoroughly after handling. Keep container close when not in use. Empty containers retain product residue. Precautions also apply to empty containers. Contaminated work clothing should not be allowed to leave the workplace.

Conditions for Safe Storage: Do not store above 30°C. Keep away from foodstuffs. Keep containers tightly closed when not in use. Store away from incompatible materials.

Section 8: Exposure, Controls, and Personal Protection

Ingredients	ACGIH/TLV		OSHA/PEL		NIOSH	
Aspartic Acid, N, N'-(Methylenedi-4,1-Cyclohexanediyl)bis-, 1,1',4,4'-Tetraethyl Ester	TWA	Not Available	PEL	Not Available	REL	Not Available
	STEL	Not Available	STEL	Not Available		

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Engineering Measures/Controls: Use local exhaust if general ventilation is inadequate. Supply safety shower and eyewash station near handling area.

Eye/Face Exposure: Use suitable CSA approved safety glasses, goggles or face shield as indicated by conditions of exposure.

Respiratory Protection: Wear a suitable CSA approved organic vapor respirator unless air monitoring indicates vapor levels are below the airborne exposure limits.

Skin Protection: Wear chemical resistant clothing and boots. Use protective clothing suited to the conditions of exposure (eg. Gloves, boots, apron, full body suit).

Section 9: Physical and Chemical Properties

Information on Physical and Chemical Properties

Physical State:	Liquid	Odor/Appearance:	Liquid
Odor Threshold:	Slight	Specific Gravity:	1.08
Vapour Pressure:	0.000014 mmHg 20°C (68°F)	Vapour Density:	Not Established
Evaporation Rate:	(Butyl Acetate =1) >1	Boiling Point:	185°C (365°F)
Freezing Point:	Not Established	PH:	Not Established
Density:	Not Established	Coefficient of H2O/Oil:	N/A

Section 10: Stability and Reactivity

Chemical Stability: Stable.

Hazardous Reactions: Hazardous polymerization does not occur.

Conditions to Avoid: Contact with incompatible materials. Extreme heat.

Incompatible Materials: Oxidizing agents, acids, and isocyanates.

Hazardous Decomposition Products: CO, nitrogen oxides, amines, and unidentified aliphatic fragments.

Section 11: Toxicological Information

Ingredients	LC50	LD50
Aspartic Acid, N, N'-(Methylenedi-4, 1-Cyclohexanediyl) bis-,1,1',4,4'-Tetraethyl Ester	Rat:>4224 mg/L (4h)	Oral Rat: >2000 mg/kg Dermal Rat: >2000 mg/kg

Effects of Acute Exposure: No specific systemic symptoms of overexposure are known to occur in humans.

Routes of Exposure: Eye contact. Ingestion. Skin contact.

Eye Irritation: N/A

Skin Irritation: N/A

Inhalation LC50: N/A

Ingestion: N/A

Effects of Chronic Exposure: None known

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Carcinogenicity of Material: This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA.

Teratogenicity: N/A

Mutagenicity: N/A

Reproductive Effects: N/A

Section 12: Ecological Information

Environmental: Do not allow product or any runoff from fire control to enter storm or sanitary sewers, lakes, rivers or public waterways.

Environmental Fate: Not readily biodegradable.

Bioaccumulation: BCF: 1.872

Fish Toxicity: LC50: 66 mg/L (Zebra Fish, 96h).

Invertebrate Toxicity: LC50: 88.6 mg/L (Water Flea, 96h)

Toxicity in Aquatic Invertebrates: ErC50: >100 mg/L (72h, Desmodesmus Suspiciatus (green algae)).

Microorganism Toxicity: EC50: 3110 mg/L (3h, bacteria)

Other: EC50: >=100 mg/kg (terrestrial plants, 14d).

Section 13: Disposal Information

Waste Disposal: Dispose of empty containers in accordance with government regulations. Do not re-use empty containers without proper cleaning.

Section 14: Transportation Information

Note: Not regulated as hazardous for ground transportation.

Section 15: Regulatory Information

DSL: All ingredients are listed under the Canada DSL.

Section 16: Other Information

Preparation Date: 11-22-18

Disclaimer/Statement of Liability:

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