



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

PRODUCT: TOWERFLO

CODE: 7548

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..... TOWERFLO
 Product code..... 7548
 Emergency telephone number..... CANUTEC 24-hour number (613-996-6666).
 Product use..... Cooling tower, sand, salt and mud remover.

SECTION 02: HAZARD IDENTIFICATION



Hazard classification..... Skin Sensitizer — Category 1.
 Signal word..... WARNING.
 Hazard statement..... H317 May cause an allergic skin reaction.
 Precautionary statements..... P261 Avoid breathing fume/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash before reuse. P501 Dispose of contents/container to an approved waste disposal plant.
 Other hazards..... None.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
1,3-Bis (hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	6440-58-0	0.1-0.15

SECTION 04: FIRST-AID MEASURES

Routes of exposure
 Inhalation..... Remove to fresh air. If irritation persists, consult a physician.
 Ingestion..... Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.
 Skin contact..... Wash off with soap and water. Get medical attention if irritation develops and persists. Take off contaminated clothing and wash before reuse.
 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 attention if irritation develops and persists.
 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 you feel unwell, seek medical attention. If possible, show this SDS to doctor in attendance. No hazards which require special first aid measures.

SECTION 05: FIRE-FIGHTING MEASURES

Extinguishing media..... Not flammable. Use an extinguishing agent suitable for the surrounding fire.
 Hazardous combustion products..... The substances/groups of substances mentioned can be released in case of fire: Carbon oxides. Nitrogen oxides (NOx). Harmful vapours.
 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..... Not applicable.

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SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
 Environmental precautions..... Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Use personal protective equipment as required. Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.

Methods and materials for containment and cleaning up
 Never return spills to original containers for re-use. Wear rubber boots to clean up a spill. Avoid runoff into storm sewers and ditches that lead to waterways. Ensure adequate ventilation. Cover spill area with suitable absorbent material (e.g., sand, earth, sawdust, vermiculite, Oil-Dri, Kitty Litter, etc.). Sweep up material being careful not to raise dust. Place in an appropriate disposal container and seal tightly. Contaminated absorbent material may pose the same hazards as the spilled product . Spills of this material are a slipping hazard. Thoroughly wash the area with water after a spill or leak.

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. Protect container from physical damage.

Materials to avoid..... Keep away from strong acids. Keep away from strong bases. Keep away from oxidizing agents.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
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1,3-Bis (hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	not available					
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Engineering controls..... Good general ventilation (typically 10 air changes per hour) should be used .

Individual protection measures

Eye/type..... Safety glasses with side-shields.

Gloves/type..... Wear chemical protective gloves made of nitrile or neoprene.

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. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke during work.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance..... liquid.

Color..... yellow-green.

Odour..... odorless.

Odour threshold..... not available.

pH..... 4.25-4.75.

Melting point (°C)..... not applicable.

Freezing point (°C)..... 0.

Initial boiling point (°C)..... 100.

Flash point (°C), Method..... >100°C, closed cup.

Evaporation rate..... not available.

Upper flammability limit (% vol)..... not available.

Lower flammability limit (% vol)..... not available.

Vapour pressure (mm Hg)..... 17.5.

Vapour density (air=1)..... > 1.

Relative density/Specific Gravity..... 1-1.01.

Water solubility..... soluble.

Solubility in other solvents..... not available.

Partition coefficient — n-octanol/water..... not available.

Auto ignition temperature (°C)..... > 200 °C.

Thermal decomposition temperature..... not available.

Viscosity..... thin liquid.

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..... Keep away from incompatibles such as oxidizing agents.

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SECTION 10: STABILITY AND REACTIVITY

Incompatible materials..... Acids, strong oxidizing agents.
 Hazardous decomposition products..... Toxic gases/fumes may be given off during burning or thermal decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
1,3-Bis (hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	not available	2,000 mg/kg (oral-rat)
Routes of exposure		
Inhalation.....	Inhalation of spray or mist may cause irritation of the respiratory tract.	
Ingestion.....	May cause irritation of the stomach.	
Skin contact.....	May cause skin sensitization or other allergic responses.	
Eye contact.....	Contact may cause eyes irritation.	
Acute effects		
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.....	Virtually nontoxic by inhalation.	
Skin corrosion/irritation.....	Non-irritant.	
Serious eye damage/eye irritation.....	Result: mild eye irritation.	
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	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..... Not expected to be harmful to aquatic organisms.
 Persistence and degradability..... The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
 Bioaccumulative potential..... No data available.
 Mobility in soil..... No data available.
 Other adverse effects..... No applicable information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods..... Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

SECTION 14: TRANSPORT INFORMATION

TDG classification..... Not classified as a dangerous good under transport regulations.

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..... DEC 07/2017