SAFETY DATA SHEET



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

KLEEN OUT CODE: 7288 PRODUCT:

SECTION 01: IDENTIFICATION

Supplier identifier..... BRODI SPECIALTY PRODUCTS LTD.

3175 14th Avenue, Unit 1 Markham, Ontario

Canada

L3R 0H1

1-877-744-0751

KLEEN OUT Product identifier.....

Product code..... Emergency telephone number.....

7288 CANUTEC 24-hour number (613-996-6666).

Product use..... Cleaner disinfectant.

SECTION 02: HAZARD IDENTIFICATION







Hazard classification..... Skin Irritation — Category 2. Serious Eye Damage — Category 1. Skin Sensitizer — Category 1. Reproductive Toxicity — Category 2. Specific Target Organ Toxicity — Repeated Exposure — Category 2 (liver, kidney, blood). Signal word..... DANGER. H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an Hazard statement..... allergic skin reaction. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs (liver, kidney, blood) through prolonged or repeated exposure.

P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist/vapours/spray. P264 Wash thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. P308+P313 IF exposed or concerned: Get medical advice/attention. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. 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. 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. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal

plant. None. Other hazards.....

Precautionary statements.....

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS				
HAZARDOUS INGREDIENTS	CAS#	WT. %		
2-Butoxyethanol	111-76-2	3.5-4		
Alcohols, C12-15, ethoxylated	68131-39-5	2.2-2.7		
D-limonene	5989-27-5	1-1.5		
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	0.5 - <1		
Potassium hydroxide	1310-58-3	0.4-0.5		

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 contactEye contact	Rinse skin with plenty of water. If irritation persists, call a doctor. 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.

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SECTION 04: FIRST-AID MEASURES

acute and delayed

Most important symptoms and effects, both The most important known symptoms and effects are described in the labelling (see

section 2) and/or in section 11.

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are Medical attention and special treatment.... aware of the material(s) involved.

SECTION 05: FIRE-FIGHTING MEASURES

Use an extinguishing agent suitable for the surrounding fire. Extinguishing media.....

Hazardous combustion products..... Carbon oxides. Harmful vapours.

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Special protective equipment and Promptly isolate the scene by removing all persons from the vicinity of the incident if there precautions

is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Cool closed containers

exposed to fire with water spray.

Product is not sensitive to static discharge. Sensitivity to static discharge..... Sensitivity to mechanical impact..... Product is not sensitive to mechanical impact.

Further information..... Contaminated extinguishing water must be disposed of in accordance with official

regulations.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment Wear protective equipment: goggles, chemically resistant clothing and gloves, and and emergency procedures appropriate respirator if in a confined area. Keep people away from and upwind of spil/leak.

Restrict access to area until completion of clean-up.

Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. Environmental precautions.....

Ventilate the area. Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and Absorb in vermiculite, dry sand or earth and place into container. Contaminated absorbent cleaning up material may pose the same hazards as the spilled product. Dispose of absorbed material in accordance with regulations.

SECTION 07: HANDLING AND STORAGE

Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke Handling precautions.....

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 . Keep in a dry, cool and well-ventilated place. Keep containers tightly closed when not in

Storage needs..... use

Materials to avoid.....

Do not mix with other chemicals or cleaners. Keep away from strong acids. Keep away

from strong bases. Keep away from oxidizing agents.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	SIH TLV STEL	OSH PEL	A PEL STEL	NIOSH REL
2-Butoxyethanol Alcohols, C12-15, ethoxylated	20 ppm not available	not available not available	50 ppm not available	not available not available	not available not available
D-limonene	not available	not available	not available	not available	not available
Alkyl dimethyl benzyl ammonium chloride (C12-16)	not available	not available	not available	not available	not available
Potassium hydroxide	ceiling: 2 mg/m3	no data available	no data available	no data available	no data available
Individual protection measures Eye/type		Good general ventilation (typically 10 air changes per hour) should be used. Safety glasses with side-shields. Wear face shield if splashing hazard exists. Wear chemical resistant protective gloves. Generally not required. Wear respiratory protection if ventilation is inadequate. Wear clean long legged, long sleeved work clothes. Handle in accordance with good industrial hygiene and safety practice. Do not eat, dri smoke or use cosmetics while working with this product. Upon completion of work, wa hands before eating, drinking, smoking or use of toilet facilities.		exists. dequate. Do not eat, drink,	

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance..... liquid. Color..... orange. Odour.....Odour threshold..... citrus. not available.Hq 12-12.5. not available. not available. not available. Vapour density (air=1)..... Relative density/Specific Gravity...... 1.02. Water solubility.....Solubility in other solvents..... soluble 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

SECTION 11: TOXICOLOGICAL INFORMATION

2-Butoxyethanol 2-2 Butoxyethanol 2-2 Butoxyethanol 3-2 Butoxyethanol 3-3 Butoxyethanol 3-4 Butoxyetha	INGREDIENTS		LC50	LD50
Seportific target organ toxicity (STOT) Specific target organ toxicity (STOT) Stoto may kg (oran-larabit) Stoto mg/kg (dermal-raabit) Stoto mg/kg (dermal-rabbit) Stoto mg/kg (dermal-raabit) Stoto mg/kg	2-Butoxyethanol		2.2 mg/l (inhalation-rat, 4 h)	
Alkyl dimethyl benzyl ammonium chloride (C12-16) Alkyl dimethyl benzyl mist (inhlation-rat, 344 mg/kg (oral-rat); >2,000 mg/kg (dermal-rabbit) Arg kyg (oral-rat); >2000 mg/kg (dermal-rabbit) Alkyl dimethyl benzyl mist (inhlation-rat, 344 mg/kg (oral-rat); >2000 mg/kg (dermal-rabbit) Alkyl dimethyl benzyl mist (inhlation-rat, 344 mg/kg (oral-rat); >2000 mg/kg (dermal-rabbit) Alkyl dimethyl benzyl mist (inhlation-rat, 344 mg/kg (oral-rat); >2000 mg/kg (dermal-rabbit) Alkyl dimethyl benzyl mist (inhlation-rat, 344 mg/kg (dermal-rabbit) Alkyl dimethyl benzyl at a syl add available infinitation to the nose, throat and respiratory tract. Ingestion that may cause skin irritation. May cause skin sensitization or other allergic responses. Can cause eye damage. Acute oral toxicity. Acute toxicity estimate > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single skin contact. Acute toxicity estimate : > 20 mg/l. Virtually nontoxic by inhalation. Method: calculation method. Acute toxicity estimate : > 20 mg/l. Virtually nontoxic by inhalation. Method: calculation method. Skin corrosion/irritation. Result: Severe skin irritation. Result: Severe skin irritation. Result: Corrosive to eyes. Respiration hazard. No aspiration hazard expected. Chronic toxicity/effects Specific target organ toxicity (STOT). Absorption of 2-Butoxyethanol by inhalation and	Alcohols, C12-15, ethoxylated		not available	1,650-2,000 mg/kg (oral-rat); >2,000 mg/kg (dermal-rabbit)
Potassium hydroxide no data available 273 mg/kg (dermal-rabbit) Routes of exposure Inhalation	D-limonene		>20 mg/l (inhlation-rat, 4h)	4,400 mg/kg (oral-rat); >5,000 mg/kg (dermal-rabbit)
Routes of exposure Inhalation				
Inhalation	Potassium hydroxide		no data available	
	Inhalation	Ingestion may cause pair Contact may cause skin Can cause eye damage. Acute toxicity estimate > a single ingestion. LD50 (Rabbit) : > 2,000 r skin contact. Acute toxicity estimate :: method. Result: Severe skin irritar Result: Corrosive to eyes D-Limonene is known to skin sensitization . Based on the available ir after a single exposure. No aspiration hazard exp	in, irritation and burns in the mouth, irritation. May cause skin sensitizat 2,000 mg/kg. Method: calculation remg/kg. Method: calculation method. > 20 mg/l. Virtually nontoxic by inhabition. Solution. Solution is a skin sensitizer. Repeated or performation there is no specific targe spected.	throat and stomach. ion or other allergic responses. method. Virtually nontoxic after Virtually nontoxic after a single allation. Method: calculation rolonged contact may cause at organ toxicity to be expected

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SECTION 11: TOXICOLOGICAL INFORMATION

No carcinogenic substances as defined by IARC, NTP, OSHA and/or ACGIH. May cause adverse reproductive effects. Possible risk of harm to the unborn child. Carcinogenicity..... Reproductive toxicity..... 2-Butoxyethanol is considered fetotoxic; has caused toxic reproductive effects in laboratory

animals at maternally toxic doses .

No known significant effects or critical hazards. Germ Cell Mutagenicity.....

The product has not been tested. The statement has been derived from the properties of Remarks.....

the individual components.

The most important known symptoms and effects are described in the labelling (see Symptoms of Exposure..... section 2) and/or in section 11. Further important symptoms and effects are so far not

known

SECTION 12: ECOLOGICAL INFORMATION

May cause long-term adverse effects in the aquatic environment.

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..... Very toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods

Waste disposal of substance...... Container disposal Dispose of in accordance with national, state and local regulations. 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..... Not regulated as a dangerous good.

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

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.

CanChem Consultant Prepared by:

MAY 10/2018 Preparation date.....