

SAFETY DATA SHEET

BIO-CIRCLE L

Section 1. Identification		
GHS product identifier	: BIO-CIRCLE L	
Product code	: 55-A 007 (20L), 55-A 008 (208L), 55-A-009 (1000L)	
SDS no.	: L-78E	
Product type	: Liquid.	
Relevant identified uses of the substance or mixture and uses advised against		
Identified uses	: Bioremediating cleaner.	
Manufacturer	: Walter Surface Technologies Inc. Bio-Circle - A Division of Walter Surface Technologies Inc. 810 Day Hill Road Windsor, CT 06095 United States General Information: 1-866-592-5837 info.us@walter.com www.walter.com	
Emergency telephone number (with hours of operation)	: INFOTRAC [®] 1-800-535-5053. International call collect: 1-352-323-3500 24 hours/day, 7 days/week.	

Section 2. Hazards identification

OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	: Not classified.
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	2
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.





Section 3. Composition/information on ingredients

Substance/mixture

Product code

: Mixture

: 55-A 007 (20L), 55-A 008 (208L), 55-A-009 (1000L)

Ingredient name	%	CAS number
Alcohols, C10-16, ethoxylated propoxylated	≥1 - ≤3	69227-22-1

The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. Over-exposure signs/symptoms **Eve contact** : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. **Skin contact** : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	 Freat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)





Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: No specific data.
Special protective actions for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	 No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ontainment and cleaning up
Spill	: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in

information and Section 13 for waste disposal. Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.

container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. 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. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible
	containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Alcohols, C10-16, ethoxylated propoxylated	None.

	Appropriate engineering controls	Ensure adequate ventilation. No personal respiratory protective equipment normally required.	У
Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.Skin protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves 0.4 mm thick, permeation time 480 minutes.Body protection: Personal protective equipment for the body should be approved by a specialist before handling this product.Other skin protection: Appropriate footwear and any additional skin protection measures should be approved by a specialist before handling this product.	Environmental exposure controls		ţ
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based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	Body protection	performed and the risks involved and should be approved by a specialist before	əing
Respiratory protection : Not required under normal conditions of use.	Other skin protection	based on the task being performed and the risks involved and should be approved I	
	Respiratory protection	Not required under normal conditions of use.	



Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid. [Clear.]
Color	: Colorless.
Odor	: Apple.
Odor threshold	: Not available.
рН	: 7.5 to 9
Melting point	: 0°C (32°F)
Boiling point	: 98°C (208.4°F)
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: 0.0027 kPa (0.02 mm Hg) [room temperature]
Vapor density	Not available.
Relative density	: 0.98 to 1.02 g/ml @ 20°C (68°F)
Solubility	: Soluble in the following materials: cold water and hot water.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.
VOC content	: 0 % (w/w)

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.



Section 11. Toxicological information

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Information on toxicological	Information on toxicological effects					
Acute toxicity						
There is no data available.						
Irritation/Corrosion						
There is no data available.						
Sensitization						
There is no data available.						
<u>Mutagenicity</u>						
There is no data available.						
Carcinogenicity						
There is no data available.						
Reproductive toxicity						
There is no data available.						
Teratogenicity						
There is no data available.						
Specific target organ toxici There is no data available.	ty (single exposure)					
	ty (repeated expective)					
Specific target organ toxici There is no data available.	ty (repeated exposure)					
Aspiration hazard						
There is no data available.						
Information on the likely routes of exposure	: Dermal contact. Eye contact. Inhalation. Ingestion.					
Potential acute health effects	<u>8</u>					
Eye contact	: No known significant effects or critical hazards.					
Inhalation	: No known significant effects or critical hazards.					
Skin contact	: No known significant effects or critical hazards.					
Ingestion	: No known significant effects or critical hazards.					
Symptome related to the phy	vsical, chemical and toxicological characteristics					
Eye contact	: No known significant effects or critical hazards.					
Inhalation	: No known significant effects or critical hazards.					
Skin contact	: No known significant effects or critical hazards.					
Ingestion	: No known significant effects or critical hazards.					
ingestion						
Delayed and immediate effect	<u>cts and also chronic effects from short and long term exposure</u>					
<u>Short term exposure</u>						
Potential immediate effects	: No known significant effects or critical hazards.					
Potential delayed effects	: No known significant effects or critical hazards.					
Long term exposure						
Potential immediate effects	: No known significant effects or critical hazards.					
Potential delayed effects	: No known significant effects or critical hazards.					

Section 11. Toxicological information

Potential chronic health effects		
General	: No known significant effects or critical hazards.	
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.	
Teratogenicity	: No known significant effects or critical hazards.	
Developmental effects	: No known significant effects or critical hazards.	
Fertility effects	: No known significant effects or critical hazards.	

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

Section 12. Ecological information

Toxicity

There is no data available.

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Bio-Circle L	-	>96%; < 28 day(s)	Readily

Bioaccumulative potential

There is no data available.

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

AERG : Not applicable.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. Protect from freezing. Freezing will damage product and render it unusable.

Section 15. Regulatory information

 U.S. Federal regulations
 : TSCA 8(a) PAIR: 2-(4-tert-Butylbenzyl)propionaldehyde; α-Hexylcinnamaldehyde

 United States inventory (TSCA 8b): All components are listed or exempted.

 Clean Water Act (CWA) 311: Propylene oxide; Formaldehyde

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Listed
Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals	:	Not listed

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

		SARA 302 TPQ SARA 304 RQ		RQ	
Name	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Ethylene oxide Formaldehyde Propylene oxide	Yes. Yes. Yes.	1000 500 10000	- - 1444.3	10 100 100	- - 14.4

SARA 304 RQ

: 8960573.5 lbs / 4068100.4 kg [1074678.4 gal / 4068100.4 L]

<u>SARA 311/312</u>

Tel:+1-888-GHS-7769 (447-7769) / +1-450-GHS-7767 (447-7767) www.kmkregservices.com www.askdrluc.com www.ghssmart.com

Section 15. Regulatory information

Classification : Not applicable.

Composition/information on ingredients

Name	Classification
Alcohols, C10-16, ethoxylated propoxylated	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

<u>SARA 313</u>

There is no data available.

State regulations

Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	: None of the components are listed.

California Prop. 65

WARNING: This product can expose you to Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including 1,4-Dioxane, Propylene oxide, Formaldehyde, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

International lists

National inventory

Canada

: All components are listed or exempted.

Section 16. Other information

Procedure used to derive the classification

	Classification	Justification
Not classified.		
History		
Date of issue mm/dd/yyyy	: 08/15/2018	
Date of previous issue	: 01/15/2017	
Version	: 3	
Prepared by	: KMK Regulatory Services Inc.	

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

