

## SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

**Product Name:** Bio-Circle Ultra  
**SDS Number:** L-148  
**Product Code:** 55-A 107 (20L), 55-A 108 (208L), 55-A 109 (1000L)  
**Revision Date:** Jan 24, 2023 **Date Printed:** Mar 07, 2025  
**Version:** 1.0 **Supersedes Date:** N.A.  
**Distributor:** Canada - Walter Technologies pour surfaces inc.  
**Address:** 5977 autoroute Transcanadienne Pointe-Claire, QC, CA, H9R 1C1  
**Emergency Phone:** 1-800-535-5053 . Appels internationaux à frais virés : 1-352-323-3500 24/7  
**Information Phone Number:** +1 (888) 592-5837  
**Fax:**  
**Product/Recommended Uses:**

## SECTION 2) HAZARDS IDENTIFICATION

### Classification

Eye Irritation - Category 2A

Safety data sheet prepared in accordance to the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

### Pictograms



### Signal Word

Warning

### Hazardous Statements - Health

H319 - Causes serious eye irritation

### Precautionary Statements - General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

### Precautionary Statements - Prevention

P264 - Wash thoroughly after handling.

P280 - Wear protective gloves, protective clothing, eye protection/face protection.

### Precautionary Statements - Response

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

### Precautionary Statements - Storage

No precautionary statement available.

## Precautionary Statements - Disposal

No precautionary statement available.

## SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0000112-34-5	DIETHYLENE GLYCOL MONOBUTYL ETHER	0.10% - 1.00%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

## SECTION 4) FIRST-AID MEASURES

### Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

### Eye Contact

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

### Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

### Ingestion

Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

### Most important symptoms and effects, both acute and delayed

No data available.

### Indication of any immediate medical attention and special treatment needed

Treat according to symptoms (decontamination, vital functions), no known specific antidote. Treatment should be supportive and based on the judgement of the physician in response to the reaction of the patient.

## SECTION 5) FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Small Fire : Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Large Fire : Water spray, fog or alcohol-resistant foam.

### Unsuitable Extinguishing Media

Do not use straight stream of water.

### Specific Hazards Arising from the Chemical

Fire will produce irritating gases.

### Precautions for Firefighters

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### Special Protective Equipment

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## SECTION 6) ACCIDENTAL RELEASE MEASURES

### Emergency Procedure

Isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Ventilate closed spaces before entering. Do not

touch damaged containers or spilled materials unless wearing appropriate protective clothing.

### Protective Equipment

Wear chemical protective clothing and positive pressure self-contained breathing apparatus (SCBA).

### Personal Precautions

Avoid breathing vapor or mist. Avoid contact with skin, eye or clothing.

### Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

### Methods and Materials for Containment and Cleaning up

Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal. Ventilate area after clean-up is complete.

## SECTION 7) HANDLING AND STORAGE

### General

Wash hands after use. Avoid contact with skin, eye or clothing. Avoid breathing vapor or mist. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Eyewash stations and showers should be available in areas where this material is used and stored. All containers must be properly labelled.

### Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Report ventilation failures immediately.

### Storage Room Requirements

Store in a cool, dry, well ventilated area, away from sources of ignition and incompatibilities. Keep containers securely sealed when not in use. Containers that have been opened must be carefully resealed to prevent leakage. Indoor storage should meet OSHA standards and appropriate fire codes. Empty containers retain residue and may be dangerous.

## SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

### Eye protection

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids.

### Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

### Respiratory protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.

### Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA Tables (Z1, Z2, Z3)	OSHA Carcinogen	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)
DIETHYLENE GLYCOL MONOBUTYL ETHER							10(IFV)	
ETHYL ACETATE	1		400	1400			400	
ETHYLENE GLYCOL							25 (v)	

Chemical Name	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	ACGIH Carcinogen	NIOSH Carcinogen
DIETHYLENE GLYCOL MONOBUTYL ETHER								
ETHYL ACETATE			400	1400				
ETHYLENE GLYCOL	50 (v)	10 (l,H)					A4	

Chemical Name	ACGIH TLV Basis	ACGIH Notations	OSHA Skin designation	CAN_ONsmg	CAN_ONtmg	CAN_ONsppm	CAN_ONtppm
DIETHYLENE GLYCOL MONOBUTYL ETHER	Hematologic, liver & kidney eff						
ETHYL ACETATE	URT & eye irr						
ETHYLENE GLYCOL	URT irr	A4					

A4 - Not Classifiable as a Human Carcinogen, eff - Effects, irr - Irritation, URT - Upper respiratory tract

## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Density	0.99 à 1.005 g/ml @ 20°C
Specific Gravity	N/A
% VOC	0% (w/w)

Appearance	Liquide brun pâle
Odor Threshold	Fraîche
pH	8.5-9
Flammability	N/A
Flash Point	N/A
Low Boiling Point	N/A
High Boiling Point	98.00 °C
Auto Ignition Temp	N/A
Melting Point	0.00 °C
Vapor Pressure	N/A
Vapor Density	N/A
Evaporation Rate	N/A
Upper Explosion Level	N/A
Lower Explosion Level	N/A
Water Solubility	Soluble dans les substances suivantes : eau froide et eau chaude
Coefficient Water/Oil	N/A
Kinematic Viscosity	N/A
Kinematic Viscosity Temperature	N/A

## SECTION 10) STABILITY AND REACTIVITY

### Chemical Stability

Stable under normal storage and handling conditions.

#### **Possibility of Hazardous Reactions/Polymerization**

Will not occur.

#### **Conditions To Avoid**

Avoid heat, sparks, flame and contact with incompatible materials

#### **Incompatible Materials**

Strong bases, acids, and oxidizing agents.

#### **Hazardous Decomposition Products**

Oxides of carbon.

## **SECTION 11) TOXICOLOGICAL INFORMATION**

#### **Acute Toxicity**

Based on available data, the classification criteria are not met.

#### **Aspiration Hazard**

Based on available data, the classification criteria are not met.

#### **Carcinogenicity**

Based on available data, the classification criteria are not met.

#### **Germ Cell Mutagenicity**

Based on available data, the classification criteria are not met.

#### **Reproductive Toxicity**

Based on available data, the classification criteria are not met.

#### **Respiratory/Skin Sensitization**

0000112-34-5 DIETHYLENE GLYCOL MONOBUTYL ETHER

May cause dryness and cracking.

#### **Serious Eye Damage/Irritation**

Causes serious eye irritation

0000112-34-5 DIETHYLENE GLYCOL MONOBUTYL ETHER

Can be irritating to the eyes.

#### **Skin Corrosion/Irritation**

Based on available data, the classification criteria are not met.

#### **Specific Target Organ Toxicity - Repeated Exposure**

Based on available data, the classification criteria are not met.

#### **Specific Target Organ Toxicity - Single Exposure**

Based on available data, the classification criteria are not met.

#### **Likely Routes of Exposure**

Inhalation, Ingestion, Skin contact, Eye contact

## **SECTION 12) ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Based on available data, the classification criteria are not met.

#### **Persistence and Degradability**

0000112-34-5 DIETHYLENE GLYCOL MONOBUTYL ETHER

Readily biodegradable.

### Bioaccumulative Potential

No data available.

### Mobility in Soil

No data available.

### Other Adverse Effects

No data available.

### Results of the PBT and vPvB assessment

0000112-34-5 DIETHYLENE GLYCOL MONOBUTYL ETHER

The substance is not PBT / vPvB.

## SECTION 13) DISPOSAL CONSIDERATIONS

### Waste Disposal

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

## SECTION 14) TRANSPORT INFORMATION

## SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0000112-34-5	DIETHYLENE GLYCOL MONOBUTYL ETHER	0.10% - 1.00%	Canada_NPRI, DSL - Domestic Substance List, HAPS, TSCA - Toxic Substances Control Act (TSCA), NEI - National Emissions Inventory, Canada_ON_419
0025322-68-3	POLYETHYLENE GLYCOL	0.10% - 1.00%	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0000693-23-2	DODECANEDIOIC ACID	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0001852-04-6	UNDECANEDIOIC ACID	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0025265-71-8	DIPROPYLENE GLYCOL	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0000088-41-5	CYCLOHEXANOL, 2-(1,1-DIMETHYLETHYL)-, 1-ACETATE	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0000111-46-6	DIETHYLENE GLYCOL	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0000078-70-6	1,6-OCTADIEN-3-OL, 3,7-DIMETHYL-	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0000105-53-3	DIETHYLMALONATE	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0001222-05-5	CYCLOPENTA[G]-2-BENZOPYRAN, 1,3,4,6,7,8-HEXAHYDRO-4,6,6,7,8,8-HEXAMETHYL-	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0026896-48-0	TRICYCLODECANEDIMETHANOL	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)

CAS	Chemical Name	% By Weight	Regulation List
0000107-21-1	ETHYLENE GLYCOL	Trace	Canada_NPRI, DSL - Domestic Substance List, HAPS, TSCA - Toxic Substances Control Act (TSCA), NEI - National Emissions Inventory, Canada_ON_419
0018479-58-8	7-OCTEN-2-OL, 2,6-DIMETHYL-	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0000120-51-4	BENZYL BENZOATE	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0000104-67-6	2(3H)-FURANONE, 5-HEPTYLDIHYDRO-	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0000101-86-0	OCTANAL, 2-(PHENYLMETHYLENE)-	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0032210-23-4	CYCLOHEXANOL, 4-(1,1-DIMETHYLETHYL)-, 1-ACETATE	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0000123-68-2	HEXANOIC ACID, 2-PROPEN-1-YL ESTER	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0003407-42-9	CYCLOHEXANOL, 3-(5,5,6-TRIMETHYLBICYCLO[2.2.1]HEPT-2-YL)-	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0000106-27-4	BUTANOIC ACID, 3-METHYLBUTYL ESTER	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0002639-63-6	BUTANOIC ACID, HEXYL ESTER	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0000141-78-6	ETHYL ACETATE	Trace	Canada_NPRI, DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA), Canada_ON_419
0000110-27-0	TETRADECANOIC ACID, 1-METHYLETHYL ESTER	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0033467-74-2	3-HEXEN-1-OL, 1-PROPANOATE, (3Z)-	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0000080-54-6	BENZENEPROPANAL, 4-(1,1-DIMETHYLETHYL)-.ALPHA.-METHYL-	Trace	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)

## SECTION 16) OTHER INFORMATION

### Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; CAS - Chemical Abstracts Service ; Chemtrec - Chemical Transportation Emergency Center; DSL - Domestic Substances List; ESL - Effects screening levels; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OEL - Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL - Permissible Exposure Limit; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self Contained Breathing Apparatus; ppm - parts per million; STEL - Short-term exposure limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-weighted average; US DOT- US Department of Transportation.

### Version 1.0:

Revision Date: Mar 06, 2023

Version 1.0

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