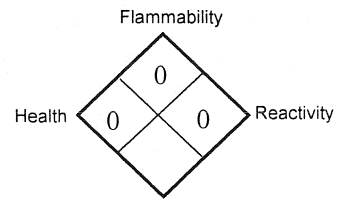




### NFPA Hazard Rating



0 = Minimum 1 = Light 2 = Moderate 3 = Serious 4 = Extreme

## MATERIAL SAFETY DATA SHEET L-78E

### Section 1 - Product Identification

J. WALTER COMPANY LTD. 5977 Transcanada Highway Pointe-Claire, Quebec H9R 1C1 Emergency: CANUTEC (613) 996-6666	Trade name: <b>Bio-Circle L</b> Product name: Bioremediant cleaner/degreaser Order no.: 55-A 007 / 55-A 008 WHMIS Classification: Not controlled Controlled under WHMIS: No
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### Section 2 - Hazardous Ingredients

<u>Ingredients</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>LD<sub>50</sub>RAT</u>	<u>LC<sub>50</sub>RAT</u>
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No hazardous substances to declare.

### Section 3 - Physical / Chemical Characteristics

Physical state: Liquid	Odour & appearance: Mild, apple	Odour threshold: N/Av
pH: 8,5	Boiling point: 98°C	Freezing point: 0°C
Specific gravity: 1,02 g/ml @ 20°C	Vapour pressure: 2.3 KPA	Vapour density: N/Av
Evaporation rate: N/A	VOC g/l: N/Av	Water solubility: Soluble

### Section 4 - Fire & Explosion Hazard

Flammability: No	Conditions: None	Extinguishing media: N/A
Flashpoint: N/A		Hazardous combustion products: Normal combustion products.
Auto ignition temperature: N/A		Sensitivity to mechanical impact or static discharge: N/A
Flammable limits (%): Upper: N/A Lower: N/A		

### Section 5 - Reactivity Data

Chemical stability: Yes      Conditions: None  
Reactivity conditions: None  
Incompatible substances: Alkalines, acids and strong oxidizers. These substances would kill the micro-organisms.  
Hazardous decomposition products: N/A

N/A - Not Applicable

N/Av - Not Available

# MATERIAL SAFETY DATA SHEET

## L-78E

### Section 6 - Toxicological Data

**Route of entry:** Eye and skin contact, ingestion.

**Acute exposure effects:** None

**Chronic exposure effects:** Skin:has a degreasing effect

**Exposure limits (TLV/TWA):** N/A

<u>Carcinogenicity</u>	<u>Mutagenicity</u>	<u>Reproductive toxicity</u>	<u>Teratogenicity</u>	<u>Synergistic effects</u>
No	No	No	No	No

**If yes to any of the above, specify:**

The Public Health Agency of Canada is providing the framework for classifying microorganisms (bacteria) in different levels of risk. The microorganisms used in the formulation of Bio-Circle L fall within Containment Level 1 (CL1), which is the safest level.

We herewith certify that the microorganisms used in Bio-Circle L all appear in the downloadable PDF document under "Bacteria" (see link on the page, document called "Non Pathogenic Organisms")."

[http://www.phac-aspc.gc.ca/ols-bsl/pathogen/organism\\_e.html](http://www.phac-aspc.gc.ca/ols-bsl/pathogen/organism_e.html)

### Section 7 - Preventive Measures

<b>Protective equipment:</b>	Gloves (Nitrile or oil resistant material), goggles.
<b>Handling procedures:</b>	Follow packaging instructions. Keep containers tightly closed. Do not eat and drink while using. Wash hands after use. Avoid contact with wounds.
<b>Waste disposal methods:</b>	Dispose as per municipal, provincial and federal regulations.
<b>Leak/spill procedures:</b>	Wetted surfaces are slippery. Wipe or absorb and rinse with plenty of water.
<b>Storage requirements:</b>	Between 2°C and 30°C. Away from direct sunlight. Keep containers tightly closed. Shelf life: 12 month as in original container.
<b>Engineering controls:</b>	None
<b>Handling equipment:</b>	N/A
<b>Special shipping information:</b>	Not controlled for transport.

### Section 8 - First Aid Measures

<b>Skin contact:</b>	Rinse with water.
<b>Eye contact:</b>	Rinse eyes thoroughly with water.
<b>Inhalation:</b>	N/A
<b>Ingestion:</b>	Rinse mouth and drink plenty of water. Ingestion can cause diarrhea.
<b>Other:</b>	N/A

### Section 9 - Preparation of MSDS

<b>Prepared by:</b>	International Product Manager - Chemical tools
<b>Telephone:</b>	1-888-592-5837
<b>Date:</b>	November 22nd, 2010

*This data is offered in good faith as typical values and not as a product specification. No warranty, either express or implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.*