



# MATERIAL SAFETY DATA SHEET

Ex-Plus

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Ex-Plus  
**Product Number:** 330  
**Product Use:** Detergent.

**Manufacturer/Supplier:** Leysons Products  
a div. of 1787528 Ontario Inc.  
1366 Sandhill Dr., Ancaster, ON L9G 4V5

**Phone Number:** (905) 648-7432  
**Emergency Phone:** (905) 648-7832  
**Date of Preparation:** 1 November 2011

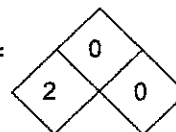
HMIS Hazard Rating:

0 = minimal, 1 = slight

2 = moderate, 3 = severe

4 = extreme

Health / Flammability / Physical Hazard



## Section 2: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

DANGER

CORROSIVE MATERIAL - CAUSES BURNS.

**Potential Health Effects:** See Section 11 for more information.

**Likely Routes of Exposure:** Skin contact, skin absorption, eye contact, inhalation, and ingestion.

**Eye:** Causes burns.

**Skin:** May cause burns.

**Ingestion:** May cause burns. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Inhalation:** May cause respiratory tract irritation.

**Chronic Effects:** Prolonged or repeated contact may dry skin and cause irritation.

**Signs and Symptoms:** Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

**Medical Conditions Aggravated By Exposure:** Asthma. Allergies.

**Target Organs:** Skin, eyes, gastrointestinal tract and respiratory system.

**Potential Environmental Effects:** May cause adverse effects in the aquatic environment See Section 12 for more information.

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
Monoethanolamine	141-43-5	1 - 5
Ethylene glycol monobutyl ether	111-76-2	3 - 7
Alcohols, C9-11, ethoxylated	68439-46-3	1 - 5



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## Section 4: FIRST AID MEASURES

- Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- Skin Contact:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
- General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).
- Note to Physicians:** Symptoms may not appear immediately.

## Section 5: FIRE FIGHTING MEASURES

- Flammability:** Not flammable by WHMIS criteria.
- Means of Extinction:**
- Suitable Extinguishing Media:** Powder, water spray, foam, carbon dioxide.
  - Unsuitable Extinguishing Media:** Not available.
- Products of Combustion:** May include, and are not limited to: oxides of carbon, oxides of nitrogen, ammonia.
- Explosion Data:**
- Sensitivity to Mechanical Impact:** Not available.
  - Sensitivity to Static Discharge:** Not available.
- Protection of Firefighters:** Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## Section 6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
- Environmental Precautions:** This material is a water pollutant. Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.
- Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Methods for Clean-Up:** Vacuum or sweep material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.
- Other Information:** Not available.



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## Section 7: HANDLING AND STORAGE

### Handling:

Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

### Storage:

Keep out of the reach of children. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

#### Ingredient

Monoethanolamine  
Ethylene glycol monobutyl ether  
Alcohols, C9-11, ethoxylated

#### Exposure Limits

##### ACGIH-TLV

3 ppm  
20 ppm  
Not available.

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

### Personal Protective Equipment:

**Eye/Face Protection:** Wear eye/face protection.

**Hand Protection:** Wear suitable gloves.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear.
<b>Color:</b>	Purple.
<b>Odour:</b>	Butyl.
<b>Odour Threshold:</b>	300 ppm
<b>Physical State:</b>	Liquid.
<b>pH:</b>	13.1
<b>Viscosity:</b>	Not available.
<b>Freezing Point:</b>	~ 0 °C (~ 32 °F)
<b>Boiling Point:</b>	Not available.
<b>Flash Point:</b>	Not available.
<b>Evaporation Rate:</b>	1 (Water = 1)
<b>Lower Flammability Limit:</b>	Not available.
<b>Upper Flammability Limit:</b>	Not available.
<b>Vapor Pressure:</b>	Not available.



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Vapor Density:	Not available.
Specific Gravity:	1.03
Solubility in Water:	Complete.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	85
VOC content, wt. %:	Not available.

## Section 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal storage conditions.

**Conditions of Reactivity:** Heat. Incompatible materials.

**Incompatible Materials:** Acids. Oxidizers.

**Hazardous Decomposition Products:** May include, and are not limited to: oxides of carbon, oxides of nitrogen, ammonia.

**Possibility of Hazardous Reactions:** Do not mix with other chemicals.

## Section 11: TOXICOLOGY INFORMATION

### EFFECTS OF ACUTE EXPOSURE

#### Component Analysis

Ingredient	LD <sub>50</sub> (oral)	LC <sub>50</sub>
Monoethanolamine	1720 mg/kg, rat 1 mL/kg, rbt	Not available.
Ethylene glycol monobutyl ether	470 mg/kg, rat	450 ppm 4 hrs, rat
Alcohols, C9-11, ethoxylated	1378 mg/kg, rat	Not available.

**Eye:** Causes burns. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin:** May cause burns. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

**Ingestion:** May cause burns. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Inhalation:** May cause respiratory tract irritation.

### EFFECTS OF CHRONIC EXPOSURE

**Target Organs:** Not available.

**Chronic Effects:** Not hazardous by WHMIS criteria.

**Carcinogenicity:** Not hazardous by WHMIS criteria.

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen *
Monoethanolamine	Not listed.
Ethylene glycol monobutyl ether	Not listed.
Alcohols, C9-11, ethoxylated	Not listed.

\* See Section 15 for more information.



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**Mutagenicity:** Not hazardous by WHMIS criteria.

**Reproductive Effects:** Not hazardous by WHMIS criteria.

**Developmental Effects:**

**Teratogenicity:** Not hazardous by WHMIS criteria.

**Embryotoxicity:** Not hazardous by WHMIS criteria.

**Respiratory Sensitization:** Not hazardous by WHMIS criteria.

**Skin Sensitization:** Not hazardous by WHMIS criteria.

**Toxicologically Synergistic Materials:** Not available.

### Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** May cause long-term adverse effects in the aquatic environment

**Persistence / Degradability:** Readily biodegradable (test method #301D, OECD)

**Bioaccumulation / Accumulation:** Not available.

**Mobility in Environment:** Not available.

### Section 13: DISPOSAL CONSIDERATIONS

**Disposal Instructions:**

This material and its container must be disposed of in a safe way.

### Section 14: TRANSPORTATION INFORMATION

**TDG Classification:**

Not regulated

### Section 15: REGULATORY INFORMATION

#### Federal Regulations

**Canadian:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

#### Global Inventories

##### Ingredient

Monoethanolamine

Ethylene glycol monobutyl ether

Alcohols, C9-11, ethoxylated

##### Canada DSL/NDSL

DSL

DSL

DSL

#### WHMIS Classification(s):

Class E - Corrosive Material

#### WHMIS Hazard Symbols:





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### SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

- OSHA (O)** Occupational Safety and Health Administration.
- ACGIH (G)** American Conference of Governmental Industrial Hygienists.  
A1 - Confirmed human carcinogen.  
A2 - Suspected human carcinogen.  
A3 - Animal carcinogen.  
A4 - Not classifiable as a human carcinogen.  
A5 - Not suspected as a human carcinogen.
- IARC (I)** International Agency for Research on Cancer.  
1 - The agent (mixture) is carcinogenic to humans.  
2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.  
2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.  
3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.  
4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.
- NTP (N)** National Toxicology Program.  
1 - Known to be carcinogens.  
2 - Reasonably anticipated to be carcinogens.

### Section 16: OTHER INFORMATION

#### Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

**Expiry Date:** 1 November 2014

**Version #:** 1.0

**Prepared by:** H & S Department  
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