



MATERIAL SAFETY DATA SHEET

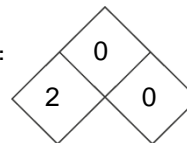
Purple Power

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Purple Power
Product Number: 330
Product Use: Detergent.
Manufacturer/Supplier: Preferred Industrial
3160-21331 Gordon Way
Richmond British Columbia V6W 1J9
Phone Number: (604) 231-6030 Toll-Free (866) 522-1600
Emergency Phone: (905) 648-7832
Date of Preparation: 1st September 2011

HMS 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 |



MATERIAL SAFETY DATA SHEET

Purple Power

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.



MATERIAL SAFETY DATA SHEET

Purple Power

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 | Exposure Limits ACGIH-TLV |
|---------------------------------|------------------------------|
| Monoethanolamine | 3 ppm |
| Ethylene glycol monobutyl ether | 20 ppm |
| Alcohols, C9-11, ethoxylated | 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

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



MATERIAL SAFETY DATA SHEET

Purple Power

| | |
|---|----------------|
| 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 ₅₀ (oral) | LC ₅₀ |
|---------------------------------|------------------------------|--------------------|
| 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.



MATERIAL SAFETY DATA SHEET

Purple Power

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:





MATERIAL SAFETY DATA SHEET

Purple Power

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: 1st September 2014

Version #: 1.0

Prepared by: H & S Department
Phone: (905) 648-7832