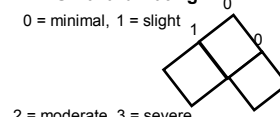


**Section 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Blu Force  
**Product Number:** 333  
**Product Use:** HD Cleaner & Degreaser  
**Manufacturer/Supplier:** Target Solutions  
K2 Century Drive, Trincity Industrial Estate,  
Macoya.  
**Phone Number:** (868) 645-1836  
**Emergency Phone:** (868) 645-1836  
**Date of Preparation:** 15 August 2014

**HMIS Hazard Rating:**

0 = minimal, 1 = slight



2 = moderate, 3 = severe

4 = extreme

Health / Flammability / Physical Hazard

**Section 2: HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

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

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

**Eye:** May cause eye irritation.

**Skin:** May cause irritation to sensitive skin.

**Ingestion:** 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, respiratory system.

**Potential Environmental Effects:** Causes no harmful effect to aquatic life.  
See Section 12 for more information.

**Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient	CAS #	Wt. %
Sodium carbonate	497-19-8	1 - 5
Dipropylene glycol monomethyl ether	34590-94-8	1 - 5
Ethoxylated alcohols	68439-46-3	3 - 7

**Section 4: FIRST AID MEASURES**

- Eye Contact:** In case of contact, immediately flush eyes with plenty of water. If easy to do, remove contact lenses, if worn.
- Skin Contact:** 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. Get medical attention if symptoms persist.
- Ingestion:** If swallowed, do not induce vomiting. First rinse out mouth then drink 2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

**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:** Oxides of carbon.

**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:** Environmentally safe for release of normal concentrations during usage. See Disposal section for larger quantities.

**Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Use appropriate equipment.

**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.

## Section 7: HANDLING AND STORAGE

### Handling:

Avoid contact with skin and eyes. Handle and open container with care.  
Wash hands before eating, drinking, or smoking.

### Storage:

Keep container tightly closed. Store in a cool dry place. Keep out of the reach of children.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

#### Ingredient

Sodium carbonate  
Dipropylene glycol monomethyl ether  
Ethoxylated alcohols

#### Exposure Limits

##### ACGIH-TLV

Not Available  
100 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>	Aqua
<b>Odour:</b>	Non-descript.
<b>Odour Threshold:</b>	Not available.
<b>Physical State:</b>	Liquid.
<b>pH:</b>	11.1
<b>Viscosity:</b>	H <sub>2</sub> O
<b>Freezing Point:</b>	H <sub>2</sub> O
<b>Boiling Point:</b>	H <sub>2</sub> O
<b>Flash Point:</b>	Not available.
<b>Evaporation Rate:</b>	Not available.
<b>Lower Flammability Limit:</b>	Not available.
<b>Upper Flammability Limit:</b>	Not available.

## MATERIAL SAFETY DATA SHEET

Blu Force

<b>Vapor Pressure:</b>	Not available.
<b>Vapor Density:</b>	Not available.
<b>Specific Gravity:</b>	1.045
<b>Solubility in Water:</b>	Dispersible
<b>Coefficient of Water/Oil Distribution:</b>	Not available.
<b>Auto-ignition Temperature:</b>	Not available.
<b>Percent Volatile, wt. %:</b>	Not available.
<b>VOC content, wt. %:</b>	Not available.

### Section 10: STABILITY AND REACTIVITY

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

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

**Incompatible Materials:** Oxidizers and strong acids.

**Hazardous Decomposition Products:** Oxides of carbon.

**Possibility of Hazardous Reactions:** No dangerous reaction known under conditions of normal use.

### Section 11: TOXICOLOGY INFORMATION

#### EFFECTS OF ACUTE EXPOSURE

##### Component Analysis

<b>Ingredient</b>	<b>LD<sub>50</sub> (oral)</b>	<b>LC<sub>50</sub></b>
Sodium carbonate	Not Available	Not Available
Dipropylene glycol monomethyl ether	5400 mg/kg, rat	Not Available
Ethoxylated alcohols	1378 mg/kg, rat	Not Available

**Eye:** May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin:** May cause skin irritation. Symptoms may include drying of the sensitive skin.

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

**Inhalation:** May cause respiratory tract irritation when consistently exposed to high conc.

#### EFFECTS OF CHRONIC EXPOSURE

**Target Organs:** Skin. Prolonged contact may cause irritation.

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

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

<b>Ingredient</b>	<b>Chemical Listed as Carcinogen or Potential Carcinogen *</b>
Sodium carbonate	Not Listed
Dipropylene glycol monomethyl ether	Not Listed
Ethoxylated alcohols	Not Listed

\* See Section 15 for more information.

**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:** Not known to cause any long term hazards.

**Persistence / Degradability:** Not available.

**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 according to provincial regs.

#### 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**

Sodium carbonate

Dipropylene glycol monomethyl ether

Ethoxylated alcohols

**Canada DSL**

DSL

DSL

DSL

**WHMIS Classification(s):**

Class D2B - Eye Irritant

**WHMIS Hazard Symbols:****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.

<b>Section 16: OTHER INFORMATION</b>
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**Expiry Date:** 15 August 2017

**Version #:** 1.0

**Prepared by:** H & S Department  
Phone: (905) 648-7432