



### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**Product identifier/Trade name:** SAFEBLEND CONCENTRATED DESCALER, CLEANER & RUST REMOVER

**Product code/Internal Identification:** BDXX

**Product use/Description:** Descaler, cleaner and rust remover

**Supplier identifier:** Chemotec (PM) Inc.  
8820 Place Ray Lawson  
Anjou, Québec, Canada H1J 1Z2  
Phone: (514) 729-6321; 1-800-729-6321

**Manufacturer identifier:** Chemotec (PM) Inc.  
8820 Place Ray Lawson  
Anjou, Québec, Canada H1J 1Z2  
Phone: (514) 729-6321; 1-800-729-6321

**Emergency phone number:** (613) 996-6666 (CANUTEC)

### SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (weight)	ACGIH TLV	OSHA PEL
Alcohol ethoxylate	68131-39-5	1-5	None established	None established
Citric acid	77-92-9	10-30	None established	None established

### SECTION 3 - HAZARDS IDENTIFICATION

#### Emergency Overview

Clear colorless liquid with light odour. CAUTION. Will cause severe eye irritation. May also cause skin irritation.

**POTENTIAL HEALTH EFFECTS** (for more details, refer to Section 11)

**Primary entry route(s):** Eye, skin and ingestion.

**Eye:** Severe eye irritation; may cause damage if not washed promptly.

**Skin:** Irritation

**Inhalation:** No effect expected.

**Ingestion:** Harmful if ingested.

**Long-term (chronic) exposure:** Prolonged contact with the product will cause irritation, drying, defatting and dermatitis.

**Conditions aggravated by exposure:** None expected.

**Carcinogenic status:** See TOXICOLOGICAL INFORMATION, Section 11.

**Additional health hazards:** For further information, see TOXICOLOGICAL INFORMATION, Section 11.

**Potential environmental effects:** See ECOLOGICAL INFORMATION, Section 12.



#### SECTION 4 - FIRST AID MEASURES

**Eye contact:**

Immediately rinse with plenty of water for 15 minutes, keeping eyelids open. Seek medical attention.

**Skin contact:**

Rinse immediately with water and mild soap for 15 minutes. Remove soiled clothes and wash before wearing. Seek medical attention should an irritation develop.

**Inhalation:**

Bring the person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and seek medical attention if discomfort persists.

**Ingestion:**

If conscious, give plenty of water. Never give anything by mouth if the person is unconscious. Do not induce vomiting. Seek immediate medical attention.

#### SECTION 5 - FIRE FIGHTING MEASURES

**Fire hazards/conditions of flammability:**

Not flammable under normal handling conditions. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

**Flash point (Method):** Does not ignite

**Lower flammable limit (% by volume):** N/Av

**Upper flammable limit (% by volume):** N/Av.

**Explosion data - Sensitivity to mechanical impact:** Not applicable

**Explosion data - Sensitivity to static discharge:** Not applicable

**Auto-ignition temperature:** N/Av

**Suitable extinguishing media:**

Water spray, dry chemicals, carbon dioxide.

**Special fire-fighting procedures/equipment:**

Evacuate personnel to a safe area. During a fire, irritating smoke and fumes may be generated. A self-contained breathing apparatus and full body protection is required for fire-fighting personnel to protect themselves from irritating products produced during the combustion. Move containers from fire area if it can be done without risk. Keep containers cool with water spray. A stream of water directed into the product generates a lot of foam.

**Hazardous combustion products:**

Oxides of carbon and nitrogen and other irritating gases. Hydrogen gas may be produced upon contact with metals.

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Wear adequate personal protective equipment (See Section 8).

**Spill response/Cleanup:**

Wear personal protective equipment. Stop the leak if you can do so without risk. Pump the product into drums for disposal; or clean up spills using absorbent material and place in waste container for destruction. Resume cleaning by rinsing with water. Prevent large spills from entering sewers or waterways.

**Environmental precautions:**

Biodegradable.

**Prohibited materials:** N/Av

**Special spill response procedures:** N/Av



## SECTION 7 - HANDLING AND STORAGE

### Safe handling procedures:

**Keep out of reach of children.** Wear protective equipment and follow good personal hygiene practices. People working with this chemical should be properly trained regarding its hazards and its safe use. Inspect containers for leaks before handling. Label containers appropriately. Avoid contact with skin, eyes and clothing. Keep away from heat and flame; do not store at temperatures above 48°C (120°F). Keep containers closed when not in use. Do not use with incompatible materials such as strong oxidizing agents or alkaline materials (see section 10).

### Storage requirements:

Store in a tightly sealed container, in a well ventilated room. Do not store in metal containers as hydrogen gas could be produced. Do not store with food products. Keep from freezing.

**Special packaging materials:** N/Ap

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Engineering controls:

A mechanical ventilation system is recommended.

### Respiratory Protection:

Not required under normal applications. In case of prolonged contact, or if engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable approved respiratory protection. Have appropriate equipment available for use in emergencies such as spills or fire.

### Skin protection and other protective equipment:

Use impervious (rubber or nitrile) gloves. Wear waterproof boots for prolonged contact with spills.

### Eye / face protection:

Wear protective chemical safety goggles to manipulate large quantities or in case of possible contact with the eyes.

### General hygiene considerations:

**KEEP OUT OF REACH OF CHILDREN.** Avoid contact with eyes. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material.

**Permissible exposure levels:** For individual ingredient exposure levels, see Section 2.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Physical state, colour and odour:** Clear colourless liquid with light odour.

**Odour threshold:** N/Av

**pH:** 1-2

**Boiling point:** Approximately 100 °C

**Melting/freezing point:** Approximately 0°C

**Vapour pressure:** Approximately 20 mm Hg (water)

**Solubility in water:** Complete.

**Coefficient of oil/water distribution:** N/Av

**Specific gravity or density (water = 1, at 4 °C):** 1.07 g/cm<sup>3</sup>@ 25 °C

**Vapour density:** Approximately 0.6 (water)

**Evaporation rate:** Approximately 0.4 (water)

**% volatile by volume:** Not available

**Viscosity:** < 100 cps @ 25 °C



**SECTION 10 - REACTIVITY AND STABILITY DATA**

**Stability and reactivity:**

Stable at room temperature, in normal handling and storage conditions. Temperature must not exceed 48°C (120°F).

**Polymerisation:** Hazardous polymerization will not occur.

**Conditions to avoid:**

Heating above 110°C will result in an exothermic decomposition with release of CO<sub>2</sub>.

**Materials to avoid:**

Avoid oxidizers. Contact with hypochlorites (e.g. chlorine bleach, etc) will liberate toxic gases. Contact with alkaline materials (e.g. aqua ammonia) will generate heat. This material may be extremely hazardous in contact with some industrial chemicals like nitrates (e.g. fertilizers), chlorates, cyanides or sulfides.

**Hazardous decomposition products:**

See under Materials to avoid.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Toxicological data:** The calculated LD<sub>50</sub> for this product is greater than 7,000 mg/Kg, oral, rat; our products are not tested on animals.

Ingredient	LD <sub>50</sub> (route, species)	LC <sub>50</sub> # hours (species)
Alcohols ethoxylates	>2000 mg/kg (oral, rat)	N/Av
Citric acid	5,040 mg/kg (oral, rat)	N/Av

**For more details, refer to Section 3.**

**Carcinogenicity:** No ingredient listed by IARC, ACGIH, NTP and OSHA as a possible carcinogen.

**Teratogenicity, mutagenicity, other reproductive effects:** N/Av

**Skin sensitization:** N/Av

**Respiratory tract sensitization:** N/Av

**Synergistic materials:** N/Av

**Other important hazards:** N/Av

**SECTION 12 - ECOLOGICAL INFORMATION**

**Environmental effects:** Product is expected to be readily biodegradable as per OECD 301.

**Important environmental characteristics:** Product is expected to be readily biodegradable as per OECD 301.

**Aquatic toxicity:** There is no test data on this product.



**SECTION 13 - WASTE DISPOSAL**

**Handling and storage conditions for disposal:**

Store material for disposal as indicated in Handling and Storage (Section 7).

**Methods of disposal:**

Dispose according to existing federal, provincial and municipal regulations.

For additional information, at the federal level, see <http://www.ec.gc.ca/gdd-mw/default.asp?lang=En&n=39D0D04A-1>

In Alberta, see <http://esrd.alberta.ca/waste/hazardous-waste-management/default.aspx>

In B.C., see <http://www2.gov.bc.ca/gov/topic.page?id=DC31CEF84F634025839C66F7F80164E8>

In Manitoba, see <http://www.gov.mb.ca/conservation/eal/haz-waste/faq/index.html>

In New-Brunswick, see [http://breaudisposal.nb.ca/breaudisposal/prohibited\\_waste.htm](http://breaudisposal.nb.ca/breaudisposal/prohibited_waste.htm)

In NFLD, see [http://www.env.gov.nl.ca/env/env\\_protection/waste/](http://www.env.gov.nl.ca/env/env_protection/waste/)

In Northwest territories, see <http://www.enr.gov.nt.ca/programs/hazardous-waste>

In Nova Scotia, see <http://novascotia.ca/snsmr/paal/nse/paal180.asp>

In Nunvaut, see <http://www.nmto.ca/course/other-training/hazardous-waste-management>

In Ontario, see <https://www.ontario.ca/environment-and-energy/hazardous-waste-management-business-and-industry>

In PEI, see <http://www.gov.pe.ca/environment/hazardous-waste>

In Quebec, see <http://www.mddelcc.gouv.qc.ca/matieres/dangereux/>

In Saskatchewan, see <http://www.publications.gov.sk.ca/details.cfm?p=24515>

In Yukon, see [http://www.env.gov.yk.ca/air-water-waste/special\\_waste\\_regs.php](http://www.env.gov.yk.ca/air-water-waste/special_waste_regs.php)

**SECTION 14 - TRANSPORTATION INFORMATION**

**Transportation of Dangerous Goods (TDG) in Canada :**

Proper shipping name: Not Regulated

Class:

N/Ap

Identification number:

N/Ap

Packing group:

N/Ap

Special case:

N/Ap

**SECTION 15 - REGULATORY INFORMATION**

**In Canada**

**WHMIS information:**

Product is regulated according to the Controlled Product Regulation (CPR) in Canada. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

**WHMIS Classification:** D2B – Toxic Materials with other effects

**CEPA information:** Ingredients are listed on the DSL inventory.

**Other information:**

**HMIS:** 0 Minimal 1 Slight 2 Moderate 3 Serious 4 Severe

**Health Hazard:** 2



**Fire Hazard:** 0  
**Reactivity:** 0  
**Personal Protection:** (See section 8.)  
**NFPA:** 0 Minimal 1 Slight 2 Moderate 3 Serious 4 Severe  
**Health:** 2  
**Fire Hazard:** 0  
**Reactivity:** 1

**SECTION 16 - OTHER INFORMATIONS**

**Prepared by:** Chemotec (PM) Inc.  
**Phone number:** (514) 729-6321  
**Date:** 2014-09-03

**References:**

1. Manufacturer'/suppliers' MSDS.
2. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2006.
3. International Agency for Research on Cancer Monographs, searched 2006.

**Abbreviations:**

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Service
CEPA	Canadian Environmental Protection Act
cps	Centipoises
DSL	Domestic Substance List
HMIS	Hazardous Material Information System
IARC	International Agency for Research on Cancer
LC	Lethal concentration
LD	Lethal Dosage
N/Av	Not Available
N/Ap	Not Applicable
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value
WHMIS	Workplace Hazardous Materials Information System

End of the MSDS