

1. Product and Company Identification

Product Name	BLASTOFF BLASTOFF PLUS
CAS #	Mixture
Product Use	General Purpose Cleaner Degreaser
Manufacturer	Frank's Maintenance Products Inc. 1299 Strasburg Rd Kitchener, Ontario Canada N2R 1H2 Phone (519) 748-4433 Fax (519) 748-5397
CANUTEC	(613) 996-6666

2. Hazards Identification

Emergency Overview	DANGER CAUSES EYE BURNS. CAUSES SKIN BURNS. Contains a potential reproductive toxin.
Potential short term health effects	
Routes of exposure	Eye, Skin contact, Skin absorption, Inhalation, Ingestion.
Eyes	Causes chemical burns. May cause blindness.
Skin	Causes chemical burns. May be absorbed through the skin.
Inhalation	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
Ingestion	Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.
Target organs	Blood. Eyes. Kidney. Liver. Respiratory system. Skin.
Chronic effects	Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.
Signs and symptoms	The product causes burns of eyes, skin and mucous membranes.
Potential environmental effects	Components of this product have been identified as having potential environmental concerns.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Sodium xylene sulphonate	1300-72-7	1 - 5
Sodium tetraborate decahydrate	1303-96-4	1 - 5
Sodium metasilicate	6834-92-0	1 - 5
Sodium dodecylbenzenesulfonate	25155-30-0	1 - 5
Alcohols, C12-16, ethoxylated	68551-12-2	1 - 5
Propylene glycol monomethyl ether	107-98-2	3 - 7

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.
Skin contact	Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Obtain medical advice immediately.
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion	Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Notes to physician

Symptoms may be delayed.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting Measures

Flammable properties

Not flammable by WHMIS criteria.

Extinguishing media**Suitable extinguishing media**

Dry chemical. Alcohol foam. Carbon dioxide.

Unsuitable extinguishing media

Not available

Protection of firefighters**Specific hazards arising from the chemical**

Not available

Protective equipment for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products

May include and are not limited to: Oxides of carbon. Oxides of sulphur.

Explosion data**Sensitivity to mechanical impact**

Not available

Sensitivity to static discharge

Not available

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Should not be released into the environment. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling

DANGER -- CORROSIVE

Do not get in eyes, on skin or on clothing.

Avoid breathing vapours or mists of this product.

Use good industrial hygiene practices in handling this material.

Keep container tightly closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Storage

Keep out of the reach of children.

Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limit values

Ingredient(s)	Exposure limit values
Alcohols, C12-16, ethoxylated	ACGIH-TLV Not established
Propylene glycol monomethyl ether	ACGIH-TLV TWA: 100 ppm STEL: 150 ppm
Sodium dodecylbenzenesulfonate	ACGIH-TLV Not established
Sodium metasilicate	ACGIH-TLV TWA: 10 mg/m3
Sodium tetraborate decahydrate	ACGIH-TLV TWA: 2 mg/m3 STEL: 6 mg/m3
Sodium xylene sulphonate	ACGIH-TLV Not established

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Eye/Face protection

Wear chemical goggles.

Hand protection

Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection

As required by employer code. Use of an impervious apron is recommended.

Respiratory protection

Avoid breathing mists or vapours.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance	Liquid
Colour	Blue
Form	Liquid
Odour	Fresh
Odour threshold	Not available
Physical state	Liquid
pH	12.5 - 13
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation Rate	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	Not available
Octanol/water coefficient	Not available
Solubility (H2O)	Not available

VOC (Weight %)	Not available
Viscosity	Not available
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	Reacts violently with acids. This product may react with strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Acids. Oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of sulphur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Alcohols, C12-16, ethoxylated	Not available
Propylene glycol monomethyl ether	Not available
Sodium dodecylbenzenesulfonate	Not available
Sodium metasilicate	Not available
Sodium tetraborate decahydrate	Not available
Sodium xylene sulphonate	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Alcohols, C12-16, ethoxylated	1380 mg/kg rat
Propylene glycol monomethyl ether	3739 mg/kg rat; 11700 mg/kg mouse
Sodium dodecylbenzenesulfonate	438 mg/kg rat
Sodium metasilicate	1153 mg/kg rat
Sodium tetraborate decahydrate	2660 mg/kg rat; 5330 mg/kg guinea pig
Sodium xylene sulphonate	7200 mg/kg rat

Effects of acute exposure

Eye	Causes chemical burns. May cause blindness.
Skin	Causes chemical burns. May be absorbed through the skin.
Inhalation	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
Ingestion	Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.
Sensitisation	Non-hazardous by WHMIS criteria.
Chronic effects	Non-hazardous by WHMIS criteria.
Carcinogenicity	Non-hazardous by WHMIS criteria.

ACGIH - Threshold Limit Values - Carcinogens

Sodium tetraborate decahydrate	1303-96-4	A4 - Not Classifiable as a Human Carcinogen (listed under Borate compounds, inorganic)
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Mutagenicity	Non-hazardous by WHMIS criteria.
Reproductive effects	Contains a potential reproductive toxin. Borates may cause harmful reproductive effects based on animal data.
Teratogenicity	Non-hazardous by WHMIS criteria.
Name of Toxicologically Synergistic Products	Not available

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.	
Ecotoxicity - Freshwater Fish - Acute Toxicity Data		
Propylene glycol monomethyl ether	107-98-2	96 Hr LC50 Pimephales promelas: 20.8 g/L [static]; 96 Hr LC50 Leuciscus idus: 4600-10000 mg/L [static]
Sodium dodecylbenzenesulfonate	25155-30-0	96 Hr LC50 Oncorhynchus mykiss: 10.8 mg/L [static]
Sodium metasilicate	6834-92-0	96 Hr LC50 Brachydanio rerio: 210 mg/L [semi-static]; 96 Hr LC50 Brachydanio rerio: 210 mg/L
Ecotoxicity - Water Flea - Acute Toxicity Data		
Propylene glycol monomethyl ether	107-98-2	48 Hr EC50 Daphnia magna: 23300 mg/L
Sodium metasilicate	6834-92-0	96 Hr EC50 Daphnia magna: 216 mg/L
Persistence and degradability	Not available	
Bioaccumulation/accumulation	Not available	
Mobility in environmental media	Not available	
Environmental effects	Harmful to aquatic life.	
Aquatic toxicity	Not available	
Partition coefficient	Not available	
Chemical fate information	Not available	
Other adverse effects	Not available	

13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

Proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate)
Hazard class	8
UN number	UN3266
Packing group	III
Additional information:	
Special provisions	16



15. Regulatory Information

Canadian federal regulations	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.
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Canada - WHMIS - Ingredient Disclosure List

Propylene glycol monomethyl ether	107-98-2	1 %
Sodium dodecylbenzenesulfonate	25155-30-0	1 %
Sodium metasilicate	6834-92-0	1 %
Sodium tetraborate decahydrate	1303-96-4	1 %

WHMIS classification	Class D - Division 2A, Class E - Corrosive Material
WHMIS status	Controlled

WHMIS labeling



Inventory Status

Country(s) or region

Canada

Canada

Inventory Name

Domestic Substances List (DSL)

Non-Domestic Substances List (NDSL)

On Inventory (Yes/No)*

Yes

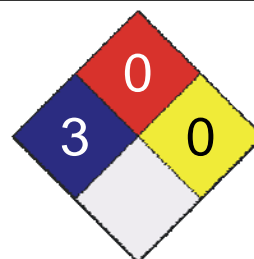
No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 3
Flammability	0
Physical Hazard	0
Personal Protection	X

**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by

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Other Information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.