



# Safety Data Sheet

## Flame

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Flame
<b>Other Means of Identification</b>	Code No. 302
<b>Recommended Use</b>	Acidic vehicle rim cleaner.
<b>Restrictions on Use</b>	Use only as directed according to label instructions.
<b>Manufacturer</b>	Leysons Products, a division of 1787528 Ontario Inc., 1366 Sandhill Drive, Ancaster, Ontario, L9G 4V5, (905) 648-7832
<b>Emergency Phone No.</b>	Mark Bryans, (905) 648-7832 ext 351, Monday to Friday, 8:00 AM to 3:30 PM CANUTECH, 613-996-6666, 24-hr for Emergencies involving Dangerous Goods
<b>SDS No.</b>	0206

### SECTION 2. HAZARD IDENTIFICATION

#### Classification

Acute toxicity (Oral) - Category 4; Skin corrosion - Category 1B; Serious eye damage - Category 1

#### Label Elements



Danger  
Corrosive  
Causes severe eye damage and skin irritation or burns.  
Harmful if swallowed.  
Wash hands thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Sulfuric acid	7664-93-9	10-15		
Ammonium bifluoride	1341-49-7	5-10		
2-Butoxyethanol	111-76-2	1-5		

#### Notes

Concentrations are expressed in % weight/weight.

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

Product Identifier: Flame - Ver. 1  
Date of Preparation: September 23, 2020  
Date of Last Revision:

SDS No.: 0206

Page 01 of 06

### **Inhalation**

If irritation is experienced, remove person to fresh air.  
Get medical advice or attention if you feel unwell or are concerned.

### **Skin Contact**

IF ON SKIN (or hair), remove all contaminated clothing and launder before reuse.  
Rinse skin with plenty of water or shower.

### **Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

If eye irritation persists, get medical advice or attention.

### **Ingestion**

In case of ingestion, call a doctor or anti-poison Centre.

### **Most Important Symptoms and Effects, Acute and Delayed**

May cause serious eye damage. May irritate or burn the eyes. Permanent damage including blindness may result.  
Harmful if swallowed.

### **Immediate Medical Attention and Special Treatment**

#### **Target Organs**

Eyes, skin, respiratory system, digestive system.

#### **Medical Conditions Aggravated by Exposure**

Asthma, skin allergies.

## **SECTION 5. FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Not combustible. Use extinguishing agent suitable for surrounding fire.

#### **Unsuitable Extinguishing Media**

None known.

### **Specific Hazards Arising from the Product**

This product presents no unusual hazards in a fire situation.

If involved in a fire, it may generate oxides of carbon, nitrogen or ammonia if heated above its boiling point.

### **Special Protective Equipment and Precautions for Fire-fighters**

Wear full fire fighting equipment and self contained breathing apparatus.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment, and Emergency Procedures**

Wear splash proof goggles, chemical resistant gloves and rubber boots.

Do not allow contact with clothing.

Wear a NIOSH approved air-purifying respirator with an organic vapour cartridge.

Increase ventilation to area or move leaking container to a well-ventilated and secure area.

### **Environmental Precautions**

Do not allow into any sewer, on the ground or into any waterway.

If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Minimize the use of water to prevent environmental contamination.

### **Methods and Materials for Containment and Cleaning Up**

Contain and/or absorb spill with commercial absorbents and then place into a suitable container for disposal.

Large spills can be neutralized with sodium carbonate.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Do not get in eyes, on skin or on clothing.  
Do NOT ingest.  
Keep containers tightly sealed when not in use.  
Wear gloves and eye protection as a precaution.

### Conditions for Safe Storage

Store in a cool dry area away from incompatible materials.  
Keep out of reach of children in a tightly closed container away from food, drink and animal feed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
2-Butoxyethanol	20 ppm		25 ppm			
Sulfuric acid	0.2 mg/m <sup>3</sup>					
Ammonium bifluoride	2.5 mg/m <sup>3</sup>					

### Appropriate Engineering Controls

Use ventilation adequate to keep exposures (airborne levels of vapour) below the recommended exposure limits.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Wear protective gloves and clothing to prevent skin contact.

#### Respiratory Protection

Use in well ventilated areas. In case of insufficient ventilation, wear a NIOSH approved air-purifying respirator with an organic vapour cartridge.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Clear red liquid.
Odour	Acidic (Sulfuric acid)
Odour Threshold	Not available
pH	~ 3.2
Melting Point/Freezing Point	Not available (melting); 0 °C (32 °F) (freezing)
Boiling point/Initial boiling point	100 °C
Boiling Range	Not available
Flash Point	Not applicable
Evaporation Rate	Not available
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	~ 1.10
Solubility	Soluble in water; Not available (in other liquids)

Product Identifier: Flame - Ver. 1  
Date of Preparation: September 23, 2020  
Date of Last Revision:

SDS No.: 0206

Page 03 of 06

<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available (kinematic)

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

Avoid contact with alkaline (basic) chemicals.

### Conditions to Avoid

High temperatures.

Freezing.

Incompatible materials.

### Incompatible Materials

Strong bases (e.g. sodium hydroxide), strong oxidizing agents (e.g. perchloric acid).

### Hazardous Decomposition Products

May include but are not limited to oxides of carbon, nitrogen and ammonia.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Inhalation.

Skin contact.

Skin absorption.

Eye contact.

Ingestion.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
2-Butoxyethanol	450 ppm (rat) (4-hour exposure)	530 mg/kg (rat)	400-500 mg/kg (rabbit)
Sulfuric acid	255 mg/m <sup>3</sup> (rat) (4-hour exposure)	2140 mg/kg (rat)	
Ammonium bifluoride		130 mg/kg (rat)	

### Serious Eye Damage/Irritation

Contact causes severe burns with redness, swelling, pain and blurred vision. Permanent damage including blindness can result.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

May cause irritation of the respiratory system.

#### Skin Absorption

May cause severe irritation or burns on prolonged contact.

#### Ingestion

May cause burns or irritation of the digestive system including nausea or vomiting.

Harmful if swallowed.

Product Identifier: Flame - Ver. 1  
 Date of Preparation: September 23, 2020  
 Date of Last Revision:

SDS No.: 0206

Page 04 of 06

**Aspiration Hazard**

May be drawn into the lungs (aspirated) if swallowed or vomited.

**Respiratory and/or Skin Sensitization**

May irritate the respiratory system.

**Carcinogenicity**

Not known to cause cancer.

**Reproductive Toxicity****Development of Offspring**

Not known to harm the unborn child.

**Sexual Function and Fertility**

Not known to cause effects on sexual function or fertility.

**Effects on or via Lactation**

Not known to cause effects on or via lactation.

**Germ Cell Mutagenicity**

Not known to be a mutagen.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

May cause adverse effects in the aquatic environment.

**Persistence and Degradability**

May cause long-term adverse effects in the aquatic environment.

**Bioaccumulative Potential**

No information was located.

**Mobility in Soil**

No information was located.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal Methods**

Dispose of contents and container in accordance with local, regional, national and international regulations.

**SECTION 14. TRANSPORT INFORMATION**

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	3264	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulphuric Acid Mixture)	8	II

**Special Precautions** Not applicable

**Transport in Bulk according to International Maritime Organization Instruments**

Not applicable

**SECTION 15. REGULATORY INFORMATION****Safety, Health and Environmental Regulations****Canada**

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

Product Identifier: Flame - Ver. 1  
Date of Preparation: September 23, 2020  
Date of Last Revision:

SDS No.: 0206

Page 05 of 06

## SECTION 16. OTHER INFORMATION

**SDS Prepared By** Mark Bryans

**Phone No.** (905) 648-7832 ext 351

**Date of Preparation** September 23, 2020

**Disclaimer** To the best of our knowledge, the information contained herein is accurate.  
However, the user of this product assumes all risks and responsibilities relating to the use of this product.  
No representation of warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information or product to which the information refers.

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Product Identifier: Flame - Ver. 1

SDS No.: 0206

Date of Preparation: September 23, 2020

Date of Last Revision:

Page 06 of 06