



# Material Safety Data Sheet

## Stop Squeal

MSDS ID: 860

### \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

**Part Number:** 860 (All Sizes)

**Product Use:** Treatment for motor vehicle brake shoes or pads

#### Manufacturer Information

BG Products Inc.  
701 S. Wichita Street  
Wichita, KS 67213

Phone: (316) 265-2686  
Fax: (316) 265-0718  
Emergency # 1-800-424-9300 (CHEMTREC)

### \*\*\* Section 2 - Hazards Identification \*\*\*

#### Emergency Overview

##### DANGER

- FLAMMABLE. Do not use or store near flames, sparks, or hot surfaces.
- EYE AND SKIN IRRITANT. Avoid contact with eyes, skin, and clothing.
- This product may be harmful by inhalation. Avoid prolonged breathing of fumes. Use with adequate ventilation.
- This product may be harmful if it is swallowed.

**HMS Ratings: Health: 2 Fire: 3 Physical Hazard: 0 Pers. Prot.: B**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

### \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent
78-83-1	ISOBUTYL ALCOHOL	60-100
67-63-0	ISOPROPYL ALCOHOL	10-30
7782-42-5	GRAPHITE	3-7
9004-57-3	ETHYLCELLULOSE	.5-1.5

#### Component Information

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). This product is considered a controlled product under the Canadian Controlled Products Regulations (CPR).

### \*\*\* Section 4 - First Aid Measures \*\*\*

#### First Aid: Eyes

In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.

#### First Aid: Skin

For skin contact flush with large amounts of water while removing contaminated clothing. If irritation persists, get medical attention.

#### First Aid: Ingestion

If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel.

#### First Aid: Inhalation

Move person to non-contaminated air. Give artificial respiration if not breathing. Call a physician if symptoms develop or persist.



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## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

See Section 9 for Flammability Properties.  
Keep away from heat, sparks, or open flame.

### Hazardous Combustion Products

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

### Extinguishing Media

Dry chemical, foam, carbon dioxide.

### Fire Fighting Equipment/Instructions

Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing.  
Fire fighters should avoid inhaling any combustion products.

**NFPA Ratings: Health: 2 Fire: 3 Reactivity: 0 Other: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Containment Procedures

Contain the discharged material. Remove sources of ignition.

### Clean-Up Procedures

Wear appropriate protective equipment and clothing during clean-up. Absorb spill with inert material.  
Shovel material into appropriate container for disposal.

### Evacuation Procedures

Isolate area. Keep unnecessary personnel away. In case of large spills, follow all facility emergency response procedures.

### Special Procedures

Wear appropriate personal protective equipment.

## \*\*\* Section 7 - Handling and Storage \*\*\*

### Handling Procedures

Avoid getting this material into contact with your skin and eyes. Wash thoroughly after handling. Use this product with adequate ventilation. Keep container closed.

### Storage Procedures

Do not store this material in open or unlabeled containers. Store this product in air-tight containers away from sources of heat and light.

## \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

### A: Component Exposure Limits

#### ISOBUTYL ALCOHOL (78-83-1)

ACGIH: 50 ppm TWA  
OSHA: 50 ppm TWA; 150 mg/m<sup>3</sup> TWA  
NIOSH: 50 ppm TWA; 150 mg/m<sup>3</sup> TWA



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## ISOPROPYL ALCOHOL (67-63-0)

ACGIH: 200 ppm TWA  
400 ppm STEL  
OSHA: 400 ppm TWA; 980 mg/m<sup>3</sup> TWA  
500 ppm STEL; 1225 mg/m<sup>3</sup> STEL  
NIOSH: 400 ppm TWA; 980 mg/m<sup>3</sup> TWA  
500 ppm STEL; 1225 mg/m<sup>3</sup> STEL

## GRAPHITE (7782-42-5)

ACGIH: 2 mg/m<sup>3</sup> TWA (respirable fraction, all forms except graphite fibers)  
OSHA: 2.5 mg/m<sup>3</sup> TWA (respirable dust)  
NIOSH: 2.5 mg/m<sup>3</sup> TWA (respirable dust)

## B: Canadian Provincial Exposure Limits

### ISOBUTYL ALCOHOL (78-83-1)

Alberta: 50 ppm TWA; 152 mg/m<sup>3</sup> TWA  
British Columbia: 50 ppm TWA  
Manitoba: 50 ppm TWA; 150 mg/m<sup>3</sup> TWA  
New Brunswick: 50 ppm TWA; 152 mg/m<sup>3</sup> TWA  
Northwest Territories: 50 ppm TWA; 152 mg/m<sup>3</sup> TWA  
75 ppm STEL; 227 mg/m<sup>3</sup> STEL  
Nova Scotia: 50 ppm TWA  
Nunavut: 50 ppm TWA; 152 mg/m<sup>3</sup> TWA  
75 ppm STEL; 227 mg/m<sup>3</sup> STEL  
Ontario: 50 ppm TWAEV; 150 mg/m<sup>3</sup> TWAEV  
Quebec: 50 ppm TWAEV; 152 mg/m<sup>3</sup> TWAEV  
Saskatchewan: 150 mg/m<sup>3</sup> TWA; 50 ppm TWA  
188 mg/m<sup>3</sup> STEL; 60 ppm STEL  
Yukon: 50 ppm TWA; 150 mg/m<sup>3</sup> TWA  
75 ppm STEL; 225 mg/m<sup>3</sup> STEL

### ISOPROPYL ALCOHOL (67-63-0)

Alberta: 400 ppm TWA; 983 mg/m<sup>3</sup> TWA  
500 ppm STEL; 1230 mg/m<sup>3</sup> STEL  
British Columbia: 200 ppm TWA  
Manitoba: 400 ppm STEL  
New Brunswick: 400 ppm TWA; 980 mg/m<sup>3</sup> TWA  
500 ppm STEL; 1225 mg/m<sup>3</sup> STEL  
Northwest Territories: 400 ppm TWA; 983 mg/m<sup>3</sup> TWA  
500 ppm STEL; 1228 mg/m<sup>3</sup> STEL  
Skin notation  
Nova Scotia: 200 ppm TWA  
400 ppm STEL  
Nunavut: 400 ppm TWA; 983 mg/m<sup>3</sup> TWA  
500 ppm STEL; 1228 mg/m<sup>3</sup> STEL  
Skin notation  
Ontario: 200 ppm TWAEV  
400 ppm STEV  
Quebec: 500 ppm STEV; 1230 mg/m<sup>3</sup> STEV  
400 ppm TWAEV; 985 mg/m<sup>3</sup> TWAEV  
Saskatchewan: 983 mg/m<sup>3</sup> TWA; 400 ppm TWA  
1230 mg/m<sup>3</sup> STEL; 500 ppm STEL  
Yukon: 400 ppm TWA; 980 mg/m<sup>3</sup> TWA  
500 ppm STEL; 1225 mg/m<sup>3</sup> STEL  
Skin notation



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## GRAPHITE (7782-42-5)

- Alberta: 2 mg/m3 TWA (all forms except graphite fibres, respirable mass)
- British Columbia: 2 mg/m3 TWA (all forms except graphite fibres, respirable)
- Manitoba: 2.5 mg/m3 TWA (natural, respirable dust)
- New Brunswick: 2 mg/m3 TWA (all forms except graphite fibres)
- NW Territories: 5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
- Nova Scotia: 2 mg/m3 TWA (respirable fraction, all forms except graphite fibers)
- Nunavut: 5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
- Ontario: 2 mg/m3 TWAEV (respirable)
- Quebec: 2.5 mg/m3 TWAEV (natural, respirable dust, containing no asbestos and less than 1% crystalline silica); 10 mg/m3 TWAEV (synthetic, except fibres, total dust, containing no asbestos and less than 1% crystalline silica)
- Saskatchewan: 2 mg/m3 TWA (respirable size)  
4 mg/m3 STEL (respirable size)
- Yukon: 20 mppcf TWA

## Engineering Controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

## PERSONAL PROTECTIVE EQUIPMENT

### Personal Protective Equipment: Eyes/Face

Wear safety glasses; chemical goggles (if splashing is possible).

### Personal Protective Equipment: Skin

Use appropriate hand protection.

### Personal Protective Equipment: Respiratory

Use NIOSH approved respirator with cartridge, air line, or SCBA as appropriate based on workplace exposure evaluations.

### Personal Protective Equipment: General

Use good industrial hygiene practices in handling this material.

## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b> Black	<b>Odor:</b> Alcohol
<b>Physical State:</b> Liquid	<b>Flash Point:</b> 11°C (52°F)
<b>Flash Point Method:</b> COC	<b>Boiling Point:</b> Not Determined
<b>Melting Point:</b> Not Determined	<b>Pour Point:</b> Not Determined
<b>Specific Gravity:</b> 0.8172	<b>Bulk Density:</b> 6.813 lbs/gal
<b>Solubility (H2O):</b> Appreciable	<b>Vapor Pressure:</b> 2.6 mm
<b>Vapor Density:</b> Heavier Than Air	<b>Percent Volatile:</b> 96%
<b>Auto Ignition:</b> Not Determined	<b>Lower Flammability Limit:</b> 1.1%
<b>Upper Flammability Limit:</b> 12%	<b>pH:</b> Not Determined

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

### Chemical Stability

Stable under normal conditions.

### Chemical Stability: Conditions to Avoid

Keep away from heat, ignition sources and incompatible materials. Avoid strong oxidizing agents.



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## Incompatibility

This product may react with oxidizing agents. Strong oxidizing agents (peroxides, chlorine, strong acids).

## Hazardous Decomposition

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

## Possibility of Hazardous Reactions

Will not occur.

## \*\*\* Section 11 - Toxicological Information \*\*\*

### Acute Dose Effects

#### A: General Product Information

An LD50 value for this product has not been determined.

#### B: Component Analysis - LD50/LC50

##### ISOBUTYL ALCOHOL (78-83-1)

Inhalation LC50 Rat: 6.5 mg/L/4H; Oral LD50 Rat: 2460 mg/kg; Dermal LD50 Rabbit: 2000 mg/kg

##### ISOPROPYL ALCOHOL (67-63-0)

Inhalation LC50 Rat: 72.6 mg/L/4H; Oral LD50 Rat: 4396 mg/kg; Dermal LD50 Rat: 12800 mg/kg; Dermal LD50 Rabbit: 12800 mg/kg

##### ETHYLCELLULOSE (9004-57-3)

Oral LD50 Rat: >5 g/kg; Dermal LD50 Rabbit: >5 g/kg

### Carcinogenicity

#### A: General Product Information

No carcinogenicity data available for this product.

#### B: Component Carcinogenicity

##### ISOPROPYL ALCOHOL (67-63-0)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999], Supplement 7 [1987], Monograph 15 [1977] (Group 3 (not classifiable))

## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity

No information available for the product.

## \*\*\* Section 13 - Disposal Considerations \*\*\*

### Waste Disposal Instructions

Dispose of in accordance with all applicable Federal, State, Provincial, and local regulations.

## \*\*\* Section 14 - Transportation Information \*\*\*

### US DOT Information

**Shipping Name:** 860, 86032: Consumer Commodity, ORM-D

8601: Flammable Liquid, n.o.s. (contains Isobutanol and Isopropanol)

**UN/NA #:** UN1993 **Hazard Class:** 3 **Packing Group:** II **Required Label(s):** Flammable



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## IMDG Information

**Shipping Name:** 860, 86032: Flammable Liquid, n.o.s. (contains Isobutanol and Isopropanol) - Limited Quantity

8601: Flammable Liquid, n.o.s. (contains Isobutanol and Isopropanol)

**UN #:** UN1993 **Hazard Class:** 3 **Packing Group:** II **Flash Point:** 11°C

**Required Label(s):** Flammable

## IATA Information

**Shipping Name:** 860, 8601, 86032: Flammable Liquid, n.o.s. (contains Isobutanol and Isopropanol)

**UN #:** UN1993 **Hazard Class:** 3 **Packing Group:** II **Flash Point:** 11°C

**Required Label(s):** Flammable

## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are exempt from listing (i.e. as polymers) or are listed on the confidential inventory as declared by the supplier.

### A: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

#### ISOBUTYL ALCOHOL (78-83-1)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

#### ISOPROPYL ALCOHOL (67-63-0)

SARA 313: 1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

### B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
ISOBUTYL ALCOHOL	78-83-1	Yes	DSL	EINECS
ISOPROPYL ALCOHOL	67-63-0	Yes	DSL	EINECS
GRAPHITE	7782-42-5	Yes	DSL	EINECS
ETHYLCELLULOSE	9004-57-3	Yes	DSL	No

### State Regulations

Other state regulations may apply. Check individual state requirements.

### Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
ISOBUTYL ALCOHOL	78-83-1	Yes	Yes	Yes	Yes	Yes	Yes
ISOPROPYL ALCOHOL	67-63-0	Yes	Yes	Yes	Yes	Yes	Yes
GRAPHITE	7782-42-5	Yes	Yes	Yes	No	Yes	Yes

### Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
ISOBUTYL ALCOHOL	78-83-1	1 %
ISOPROPYL ALCOHOL	67-63-0	1 %



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**\*\*\* Section 16 - Other Information \*\*\***

### Other Information

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use. You must notify each person to whom this mixture or trade name product is sold. This statement must not be detached. Any copy or redistribution of the Material Safety Data Sheet shall include this statement.

### Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; CAS = Chemical Abstract Services; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; CPR = Controlled Product Regulations; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EPA = Environmental Protection Agency; HMIS = Hazardous Materials Information System; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IDL = Ingredient Disclosure List; IMDG = International Maritime Dangerous Goods; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Agency; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; SARA = Superfund Amendments and Reauthorization Act; SCBA = Self Contained Breathing Apparatus; TSCA = Toxic Substance Control Act; WHMIS = Workplace Hazardous Materials Information System.

**End of MSDS 860**