Material Safety Data Sheet

Fuel Induction System Cleaner **MSDS ID: 209**

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

Part Number: 209 (All Sizes)
Product Use: Fuel Induction System Cleaner
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

- EXTREMELY FLAMMABLE. Do not use or store near flames, sparks, or hot surfaces.
- HARMFUL OR FATAL IF SWALLOWED.
- EYE AND SKIN IRRITANT. Do not get in eyes, on skin, or on clothing. Prolonged or repeated contact may result in defatting and drying of the skin, which may result in skin irritation or dermatitis (rash).
- Repeated inhalation may be harmful; lung irritation and serious central nervous system disorders may result. Avoid prolonged breathing of fumes. Use with adequate ventilation.

HMIS Ratings: Health: 3 **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
2807-30-9	ETHYLENE GLYCOL MONOPROPYL ETHER	15-40
67-63-0	ISOPROPYL ALCOHOL	10-30
112-80-1	OLEIC ACID	7-13
64742-95-6	LIGHT AROMATIC SOLVENT NAPHTHA	7-13
95-63-6	1,2,4-TRIMETHYLBENZENE	5-10
Not Available	AQUEOUS AMMONIA	.5-1.5
100-41-4	ETHYL BENZENE	.1-1

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.

* * * 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: 3 **Fire:** 3 **Reactivity:** 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

ISOPROPYL ALCOHOL (67-63-0)

ACGIH: 200 ppm TWA
400 ppm STEL
OSHA: 400 ppm TWA; 980 mg/m3 TWA
500 ppm STEL; 1225 mg/m3 STEL
NIOSH: 400 ppm TWA; 980 mg/m3 TWA
500 ppm STEL; 1225 mg/m3 STEL

1,2,4-TRIMETHYLBENZENE (95-63-6)

NIOSH: 25 ppm TWA; 125 mg/m3 TWA

ETHYL BENZENE (100-41-4)

ACGIH: 100 ppm TWA
125 ppm STEL
OSHA: 100 ppm TWA; 435 mg/m3 TWA
125 ppm STEL; 545 mg/m3 STEL
NIOSH: 100 ppm TWA; 435 mg/m3 TWA
125 ppm STEL; 545 mg/m3 STEL

B: Canadian Provincial Exposure Limits

ETHYLENE GLYCOL MONOPROPYL ETHER (2807-30-9)

Ontario: 25 ppm TWAEV; 110 mg/m3 TWAEV
Absorption through skin, eyes, or mucous membranes

ISOPROPYL ALCOHOL (67-63-0)

Alberta: 400 ppm TWA; 983 mg/m3 TWA
500 ppm STEL; 1230 mg/m3 STEL
British Columbia: 200 ppm TWA
400 ppm STEL
Manitoba: 400 ppm TWA; 980 mg/m3 TWA
500 ppm STEL; 1225 mg/m3 STEL
New Brunswick: 400 ppm TWA; 983 mg/m3 TWA
500 ppm STEL; 1230 mg/m3 STEL
NW Territories: 400 ppm TWA; 983 mg/m3 TWA
500 ppm STEL; 1228 mg/m3 STEL
Skin notation
Nova Scotia: 200 ppm TWA
400 ppm STEL
Nunavut: 400 ppm TWA; 983 mg/m3 TWA
500 ppm STEL; 1228 mg/m3 STEL
Skin notation
Ontario: 200 ppm TWAEV
400 ppm STEV
Quebec: 500 ppm STEV; 1230 mg/m3 STEV
400 ppm TWAEV; 985 mg/m3 TWAEV
Saskatchewan: 983 mg/m3 TWA; 400 ppm TWA
1230 mg/m3 STEL; 500 ppm STEL
Yukon: 400 ppm TWA; 980 mg/m3 TWA
500 ppm STEL; 1225 mg/m3 STEL
Skin notation

ETHYL BENZENE (100-41-4)

Alberta: 100 ppm TWA; 434 mg/m3 TWA
125 ppm STEL; 543 mg/m3 STEL
British Columbia: 100 ppm TWA
125 ppm STEL

Manitoba:	100 ppm TWA; 435 mg/m3 TWA 125 ppm STEL; 545 mg/m3 STEL
New Brunswick:	100 ppm TWA; 434 mg/m3 TWA 125 ppm STEL; 543 mg/m3 STEL
NW Territories:	100 ppm TWA; 434 mg/m3 TWA 125 ppm STEL; 542 mg/m3 STEL
Nova Scotia:	100 ppm TWA 125 ppm STEL
Nunavut:	100 ppm TWA; 434 mg/m3 TWA 125 ppm STEL; 542 mg/m3 STEL
Ontario:	100 ppm TWAEV; 435 mg/m3 TWAEV 125 ppm STEV; 540 mg/m3 STEV
Quebec:	125 ppm STEV; 543 mg/m3 STEV 100 ppm TWAEV; 434 mg/m3 TWAEV
Saskatchewan:	435 mg/m3 TWA; 100 ppm TWA 543 mg/m3 STEL; 125 ppm STEL
Yukon:	100 ppm TWA; 435 mg/m3 TWA 125 ppm STEL; 545 mg/m3 STEL

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 * * *

Appearance:	Light Yellow	**Odor:**	Aromatic
Physical State:	Liquid	**Flash Point:**	-18°C (0°F)
Flash Point Method:	TCC	**Boiling Point:**	82°C (180°F)
Melting Point:	Not Determined	**Pour Point**	-28°D (-20°F)
Specific Gravity:	0.8952	**Bulk Density:**	7.463 lbs/gal
Solubility (H2O):	Emulsion	**Vapor Pressure:**	Not Determined
Vapor Density:	Not Determined	**Auto Ignition:**	Not Determined
Lower Flammability Limit:	Not Determined	**Upper Flammability Limit:**	Not Determined
pH:	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.

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

ETHYLENE GLYCOL MONOPROPYL ETHER (2807-30-9)
Oral LD50 Rat: 3089 mg/kg; Dermal LD50 Rabbit: 960 µL/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

OLEIC ACID (112-80-1)
Oral LD50 Rat: 74 g/kg

LIGHT AROMATIC SOLVENT NAPHTHA (64742-95-6)
Inhalation LC50 Rat: >5.2 mg/L/4H; Inhalation LC50 Rat: 3400 ppm/4H; Oral LD50 Rat: 8400 mg/kg; Dermal LD50 Rabbit: >2000 mg/kg

1,2,4-TRIMETHYLBENZENE (95-63-6)
Inhalation LC50 Rat: 18 g/m3/4H; Oral LD50 Rat: 3400 mg/kg; Dermal LD50 Rabbit: >3160 mg/kg

ETHYL BENZENE (100-41-4)
Inhalation LC50 Rat: 17.2 mg/L/4H; Oral LD50 Rat: 3500 mg/kg; Dermal LD50 Rabbit: 15354 mg/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))

ETHYL BENZENE (100-41-4)

ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans
IARC: Monograph 77 [2000] (Group 2B (possibly carcinogenic to humans))

* * * 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: Consumer Commodity, ORM-D

IMDG Information

Shipping Name: Flammable Liquid, n.o.s. (contains Light Aromatic Solvent Naptha and 1,2,4-Trimethylbenzene)
UN #: 1993 **Hazard Class:** 3 **Packing Group:** II **Flash Point:** -18°C
Required Label(s): Limited Quantity, Flammable

IATA Information

Shipping Name: Flammable Liquid, n.o.s. (contains Light Aromatic Solvent Naptha and 1,2,4-Trimethylbenzene)
UN #: 1993 **Hazard Class:** 3 **Packing Group:** II **Flash Point:** -18°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).

ISOPROPYL ALCOHOL (67-63-0)

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

1,2,4-TRIMETHYLBENZENE (95-63-6)

SARA 313: 1.0 % de minimis concentration

ETHYL BENZENE (100-41-4)

SARA 313: 0.1 % de minimis concentration
CERCLA: 1000 lb final RQ; 454 kg final RQ

B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
ETHYLENE GLYCOL MONOPROPYL ETHER	2807-30-9	Yes	DSL	EINECS
ISOPROPYL ALCOHOL	67-63-0	Yes	DSL	EINECS
OLEIC ACID	112-80-1	Yes	DSL	EINECS
LIGHT AROMATIC SOLVENT NAPHTHA	64742-95-6	Yes	DSL	EINECS
1,2,4-TRIMETHYLBENZENE	95-63-6	Yes	DSL	EINECS
ETHYL BENZENE	100-41-4	Yes	DSL	EINECS

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
ISOPROPYL ALCOHOL	67-63-0	Yes	Yes	Yes	Yes	Yes	Yes
OLEIC ACID	112-80-1	No	No	No	No	Yes	Yes
1,2,4-TRIMETHYLBENZENE	95-63-6	No	Yes	Yes	Yes	Yes	No
ETHYL BENZENE	100-41-4	Yes	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
WARNING! This product contains a chemical known to the state of California to cause cancer.

Component Analysis - WHMIS IDL

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

Component	CAS #	Minimum Concentration
ISOPROPYL ALCOHOL	67-63-0	1 %
OLEIC ACID	112-80-1	1 %
1,2,4-TRIMETHYLBENZENE	95-63-6	0.1 %
ETHYL BENZENE	100-41-4	0.1 %

* * * 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 209