



# Material Safety Data Sheet

Fuel Injection System Cleaner

MSDS ID: 210

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

Part Number: 210

Product Use: Injector Cleaning

### 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! Avoid contact with eyes, skin, and clothing.
- VAPOR HARMFUL! Avoid prolonged breathing of fumes. Use with adequate ventilation.

HMIS Ratings: Health: 3 Fire: 4 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
Not Available	PETROLEUM DISTILLATES	10-30
1330-20-7	XYLENE	10-30
2807-30-9	ETHYLENE GLYCOL MONOPROPYL ETHER	5-10
112-80-1	OLEIC ACID	5-10
108-11-2	METHYL AMYL ALCOHOL	5-10
100-41-4	ETHYL BENZENE	3-7
26264-05-1	DODECYLBENZENESULFONIC ACID, ISOPROPYLAMINE SALT	1-5

### Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Solvent naphtha (petroleum), light aliphatic (64742-89-8), LIGHT ALIPHATIC SOLVENT NAPHTHA (8032-32-4), Petroleum naphtha, light aromatic (64742-95-6).

### 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.



# Material Safety Data Sheet

**Fuel Injection System Cleaner**

**MSDS ID: 210**

## 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: 4 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.



# Material Safety Data Sheet

Fuel Injection System Cleaner

MSDS ID: 210

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

## A: Component Exposure Limits

### PETROLEUM DISTILLATES (Not Available)

ACGIH: 300 ppm TWA (related to VM&P Naphtha)  
OSHA: 300 ppm TWA; 1350 mg/m<sup>3</sup> TWA (related to VM&P Naphtha)  
400 ppm STEL; 1800 mg/m<sup>3</sup> STEL (related to VM&P Naphtha)  
NIOSH: 350 mg/m<sup>3</sup> TWA (related to VM&P Naphtha)  
1800 mg/m<sup>3</sup> Ceiling (15 min) (related to VM&P Naphtha)

### XYLENE (1330-20-7)

ACGIH: 100 ppm TWA  
150 ppm STEL  
OSHA: 100 ppm TWA; 435 mg/m<sup>3</sup> TWA  
150 ppm STEL; 655 mg/m<sup>3</sup> STEL

### METHYL AMYL ALCOHOL (108-11-2)

ACGIH: 25 ppm TWA  
40 ppm STEL  
Skin - potential significant contribution to overall exposure by the cutaneous route  
OSHA: 25 ppm TWA; 100 mg/m<sup>3</sup> TWA  
40 ppm STEL; 165 mg/m<sup>3</sup> STEL  
Prevent or reduce skin absorption  
NIOSH: 25 ppm TWA; 100 mg/m<sup>3</sup> TWA  
40 ppm STEL; 165 mg/m<sup>3</sup> STEL  
Potential for dermal absorption

### ETHYL BENZENE (100-41-4)

ACGIH: 100 ppm TWA  
125 ppm STEL  
OSHA: 100 ppm TWA; 435 mg/m<sup>3</sup> TWA  
125 ppm STEL; 545 mg/m<sup>3</sup> STEL  
NIOSH: 100 ppm TWA; 435 mg/m<sup>3</sup> TWA  
125 ppm STEL; 545 mg/m<sup>3</sup> STEL

## B: Canadian Provincial Exposure Limits

### PETROLEUM DISTILLATES (Not Available)

Alberta: 300 ppm TWA; 1398 mg/m<sup>3</sup> TWA (related to VM & P Naphtha)  
British Columbia: 350 mg/m<sup>3</sup> TWA (related to VM & P Naphtha)  
Manitoba: 300 ppm TWA (related to VM&P Naphtha)  
New Brunswick: 300 ppm TWA; 1370 mg/m<sup>3</sup> TWA (related to VM&P Naphtha)  
NW Territories: 300 ppm TWA; 1350 mg/m<sup>3</sup> TWA (related to VM & P Naphtha)  
400 ppm STEL; 1800 mg/m<sup>3</sup> STEL (related to VM & P Naphtha)  
Nova Scotia: 300 ppm TWA (related to VM&P Naphtha)  
Nunavut: 300 ppm TWA; 1350 mg/m<sup>3</sup> TWA (related to VM & P Naphtha)  
400 ppm STEL; 1800 mg/m<sup>3</sup> STEL (related to VM & P Naphtha)  
Ontario: 1350 mg/m<sup>3</sup> TWAEV (related to VM&P Naphtha)  
Quebec: 300 ppm TWAEV; 1370 mg/m<sup>3</sup> TWAEV (related to VM&P Naphtha)  
Saskatchewan: 1370 mg/m<sup>3</sup> TWA; 300 ppm TWA (related to VM and P Naphtha)  
1712 mg/m<sup>3</sup> STEL; 375 ppm STEL (related to VM and P Naphtha)

### XYLENE (1330-20-7)

Alberta: 100 ppm TWA; 434 mg/m<sup>3</sup> TWA  
150 ppm STEL; 651 mg/m<sup>3</sup> STEL  
British Columbia: 100 ppm TWA  
Columbia: 150 ppm STEL



# Material Safety Data Sheet

## Fuel Injection System Cleaner

MSDS ID: 210

Manitoba: 100 ppm TWA  
150 ppm STEL  
New Brunswick: 100 ppm TWA; 434 mg/m<sup>3</sup> TWA  
150 ppm STEL; 651 mg/m<sup>3</sup> STEL  
NW Territories: 100 ppm TWA; 434 mg/m<sup>3</sup> TWA  
150 ppm STEL; 652 mg/m<sup>3</sup> STEL  
Skin notation  
Nova Scotia: 100 ppm TWA  
150 ppm STEL  
Nunavut: 100 ppm TWA; 434 mg/m<sup>3</sup> TWA  
150 ppm STEL; 652 mg/m<sup>3</sup> STEL  
Skin notation  
Ontario: 100 ppm TWAEV; 435 mg/m<sup>3</sup> TWAEV  
150 ppm STEV; 650 mg/m<sup>3</sup> STEV  
Quebec: 150 ppm STEV; 651 mg/m<sup>3</sup> STEV  
100 ppm TWAEV; 434 mg/m<sup>3</sup> TWAEV  
Saskatchewan: 434 mg/m<sup>3</sup> TWA; 100 ppm TWA  
651 mg/m<sup>3</sup> STEL; 150 ppm STEL  
Yukon: 100 ppm TWA; 435 mg/m<sup>3</sup> TWA  
150 ppm STEL; 650 mg/m<sup>3</sup> STEL  
Skin notation

### ETHYLENE GLYCOL MONOPROPYL ETHER (2807-30-9)

Ontario: 25 ppm TWAEV; 110 mg/m<sup>3</sup> TWAEV  
Absorption through skin, eyes, or mucous membranes

### METHYL AMYL ALCOHOL (108-11-2)

Alberta: 25 ppm TWA; 104 mg/m<sup>3</sup> TWA  
40 ppm STEL; 167 mg/m<sup>3</sup> STEL  
Substance may be readily absorbed through intact skin  
British Columbia: 25 ppm TWA  
40 ppm STEL  
Skin notation  
Manitoba: 25 ppm TWA  
40 ppm STEL  
Skin - potential significant contribution to overall exposure by the cutaneous route  
New Brunswick: 25 ppm TWA; 104 mg/m<sup>3</sup> TWA  
40 ppm STEL; 167 mg/m<sup>3</sup> STEL  
Skin - potential for cutaneous absorption  
NW Territories: 25 ppm TWA; 105 mg/m<sup>3</sup> TWA  
40 ppm STEL; 167 mg/m<sup>3</sup> STEL  
Skin notation  
Nova Scotia: 25 ppm TWA  
40 ppm STEL  
Skin - potential significant contribution to overall exposure by the cutaneous route  
Nunavut: 25 ppm TWA; 105 mg/m<sup>3</sup> TWA  
40 ppm STEL; 167 mg/m<sup>3</sup> STEL  
Skin notation  
Ontario: 25 ppm TWAEV; 104 mg/m<sup>3</sup> TWAEV  
40 ppm STEV; 167 mg/m<sup>3</sup> STEV  
Absorption through skin, eyes, or mucous membranes  
Quebec: 40 ppm STEV; 167 mg/m<sup>3</sup> STEV  
25 ppm TWAEV; 104 mg/m<sup>3</sup> TWAEV  
Skin designation  
Saskatchewan: 104 mg/m<sup>3</sup> TWA; 25 ppm TWA  
167 mg/m<sup>3</sup> STEL; 40 ppm STEL  
Yukon: 25 ppm TWA; 100 mg/m<sup>3</sup> TWA  
40 ppm STEL; 150 mg/m<sup>3</sup> STEL  
Skin notation



# Material Safety Data Sheet

Fuel Injection System Cleaner

MSDS ID: 210

## 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  
125 ppm 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 \* \* \*

<p><b>Appearance:</b> Yellow</p> <p><b>Physical State:</b> Liquid</p> <p><b>Flash Point Method:</b> TCC</p> <p><b>Melting Point:</b> Not Available</p> <p><b>Specific Gravity:</b> 0.7999</p> <p><b>Solubility (H2O):</b> Insoluble</p> <p><b>Vapor Density:</b> Not Available</p> <p><b>Lower Flammability Limit:</b> Not Available</p> <p><b>pH:</b> Not Available</p>	<p><b>Odor:</b> Ammonia</p> <p><b>Flash Point:</b> -18°C (&lt;0°F)</p> <p><b>Boiling Point:</b> 80°C (176°F)</p> <p><b>Pour Point:</b> &lt;-48°C (-55°F)</p> <p><b>Bulk Density:</b> 6.669 lbs/gal</p> <p><b>Vapor Pressure:</b> Not Available</p> <p><b>Auto Ignition:</b> Not Available</p> <p><b>Upper Flammability Limit:</b> Not Available</p>
--	---



# Material Safety Data Sheet

Fuel Injection System Cleaner

MSDS ID: 210

## \*\*\* 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

##### PETROLEUM DISTILLATES (Not Available)

Oral LD50 Rat: 5000 mg/kg; Dermal LD50 Rabbit: 3000 mg/kg (related to Solvent naphtha (petroleum), light aliphatic)

##### XYLENE (1330-20-7)

Inhalation LC50 Rat: 5000 ppm/4H; Oral LD50 Rat: 4300 mg/kg; Dermal LD50 Rabbit: >1700 mg/kg

##### ETHYLENE GLYCOL MONOPROPYL ETHER (2807-30-9)

Oral LD50 Rat: 3089 mg/kg; Dermal LD50 Rabbit: 960 µL/kg

##### METHYL AMYL ALCOHOL (108-11-2)

Inhalation LC50 Rat: >16 mg/L/4H; Inhalation LC50 Rat: >3776 ppm/4H; Oral LD50 Rat: 2590 mg/kg; Dermal LD50 Rabbit: 2870 mg/kg

##### OLEIC ACID (112-80-1)

Oral LD50 Rat: 74 g/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

##### PETROLEUM DISTILLATES (Not Available)

ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans (related to VM&P Naphtha)

##### XYLENE (1330-20-7)

ACGIH: A4 - Not Classifiable as a Human Carcinogen



# Material Safety Data Sheet

Fuel Injection System Cleaner

MSDS ID: 210

IARC: Monograph 71 [1999], Monograph 47 [1989] (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

210:

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

2105, 21053:

**Shipping Name:** Flammable Liquid, n.o.s. (contains Petroleum Distillates and Xylene)

**UN/NA #:** UN1993 **Hazard Class:** 3 **Packing Group:** II

**Required Label(s):** Flammable

#### IMDG Information

210:

**Shipping Name:** Flammable Liquid, n.o.s. (contains Petroleum Distillates and Xylene)

**UN #:** 1993 **Hazard Class:** 3 **Packing Group:** II **Flash Point:** -18°C

**Required Label(s):** Limited Quantity

2105, 21053:

**Shipping Name:** Flammable Liquid, n.o.s. (contains Petroleum Distillates and Xylene)

**UN #:** 1993 **Hazard Class:** 3 **Packing Group:** II **Flash Point:** -18°C

**Required Label(s):** Flammable

#### IATA Information

210:

**Shipping Name:** Flammable Liquid, n.o.s. (contains Petroleum Distillates and Xylene)

**UN #:** 1993 **Hazard Class:** 3 **Packing Group:** II **Flash Point:** -18°C

**Required Label(s):** Limited Quantity

2105:

**Shipping Name:** Flammable Liquid, n.o.s. (contains Petroleum Distillates and Xylene)

**UN #:** 1993 **Hazard Class:** 3 **Packing Group:** II **Flash Point:** -18°C

**Required Label(s):** Flammable

21053: CAN NOT SHIP BY AIR



# Material Safety Data Sheet

Fuel Injection System Cleaner

MSDS ID: 210

\*\*\* 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).

#### XYLENE (1330-20-7)

SARA 313: 1.0 % de minimis concentration  
CERCLA: 100 lb final RQ; 45.4 kg final RQ

#### 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
XYLENE	1330-20-7	Yes	DSL	EINECS
ETHYLENE GLYCOL MONOPROPYL ETHER	2807-30-9	Yes	DSL	EINECS
METHYL AMYL ALCOHOL	108-11-2	Yes	DSL	EINECS
OLEIC ACID	112-80-1	Yes	DSL	EINECS
ETHYL BENZENE	100-41-4	Yes	DSL	EINECS
DODECYLBENZENESULFONIC ACID, ISOPROPYLAMINE SALT	26264-05-1	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
PETROLEUM DISTILLATES (1related to VM&P Naphtha) (2related to Ligroine)	Not Available	No	No	Yes 1	Yes 1	Yes 2	No
XYLENE	1330-20-7	Yes	Yes	Yes	Yes	Yes	Yes
METHYL AMYL ALCOHOL	108-11-2	Yes	Yes	Yes	Yes	Yes	No
OLEIC ACID	112-80-1	No	No	No	No	Yes	Yes
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
PETROLEUM DISTILLATES	Not Available	1 % (related to VM&P Naphtha)
METHYL AMYL ALCOHOL	108-11-2	1 %
OLEIC ACID	112-80-1	1 %
ETHYL BENZENE	100-41-4	0.1 %



## Material Safety Data Sheet

Fuel Injection System Cleaner

MSDS ID: 210

\* \* \* 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.

**Contact:** Kolin Anglin, Environmental Coordinator

**Contact Phone:** 316-265-2686

**End of MSDS 210**