



Material Safety Data Sheet

Maximum Diesel Performance

MSDS ID: 248

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

Part Number: 248, 2481, 2485, 24830, 24853

Product Use: Diesel Fuel Treatment

Manufacturer Information

BG Products Inc.
701 S. Wichita Street
Wichita, KS 67213 USA
www.bgprod.com

Phone: (800) 961-6228 or (316) 265-2686
Fax: (316) 265-1082
Emergency # 1-800-424-9300 (CHEMTREC)

*** Section 2 - Hazards Identification ***

Emergency Overview

WARNING

- HARMFUL OR FATAL IF SWALLOWED!
- COMBUSTIBLE! Do not use or store near flames, sparks, or hot surfaces.
- SKIN SENSITIZER! Avoid contact with eyes, skin, and clothing.
- EYE, SKIN, AND RESPIRATORY IRRITANT!
- This product may be harmful by inhalation. Avoid prolonged breathing of fumes. Use with adequate ventilation.

HMIS Ratings: Health: 2 Fire: 2 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
27247-96-7	2-ETHYLHEXYL NITRATE	15-40
8052-41-3	MINERAL SPIRITS	15-40
Not Available	PETROLEUM DISTILLATES	10-30
108-67-8	1,3,5-TRIMETHYLBENZENE	1-5
95-63-6	1,2,4-TRIMETHYLBENZENE	1-5
1330-20-7	XYLENE	0.5-1.5
91-20-3	NAPHTHALENE	0.5-1.5

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Naphtha (petroleum), heavy aromatic (64742-94-5), Petroleum naphtha, light aromatic (64742-95-6), Petroleum Base Oil (8008-20-6).

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 ***

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.

Skin

For skin contact flush with large amounts of water while removing contaminated clothing. If irritation



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persists, get medical attention.

Ingestion

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

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: 2 Fire: 2 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.



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

A: Component Exposure Limits

MINERAL SPIRITS (8052-41-3)

ACGIH: 100 ppm TWA
OSHA: 100 ppm TWA; 525 mg/m³ TWA
NIOSH: 350 mg/m³ TWA
1800 mg/m³ Ceiling (15 min)

PETROLEUM DISTILLATES (Not Available)

ACGIH: 200 mg/m³ TWA (application restricted to conditions in which there are negligible aerosol exposures) (related to Kerosene)
Skin - potential significant contribution to overall exposure by the cutaneous route (related to Kerosene)
NIOSH: 100 mg/m³ TWA (related to Kerosene)

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

NIOSH: 25 ppm TWA; 125 mg/m³ TWA

1,3,5-TRIMETHYLBENZENE (108-67-8)

NIOSH: 25 ppm TWA; 125 mg/m³ TWA

XYLENE (1330-20-7)

ACGIH: 100 ppm TWA
150 ppm STEL
OSHA: 100 ppm TWA; 435 mg/m³ TWA
150 ppm STEL; 655 mg/m³ STEL

NAPHTHALENE (91-20-3)

ACGIH: 10 ppm TWA
15 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA: 10 ppm TWA; 50 mg/m³ TWA
15 ppm STEL; 75 mg/m³ STEL
NIOSH: 10 ppm TWA; 50 mg/m³ TWA
15 ppm STEL; 75 mg/m³ STEL

B: Canadian Provincial Exposure Limits

MINERAL SPIRITS (8052-41-3)

Alberta: 100 ppm TWA; 572 mg/m³ TWA
British Columbia: 290 mg/m³ TWA
Manitoba: 100 ppm TWA
New Brunswick: 100 ppm TWA; 525 mg/m³ TWA
Nova Scotia: 100 ppm TWA
Nunavut: 100 ppm TWA; 575 mg/m³ TWA
125 ppm STEL; 720 mg/m³ STEL
Ontario: 525 mg/m³ TWAEV
Quebec: 100 ppm TWAEV; 525 mg/m³ TWAEV
Saskatchewan: 525 mg/m³ TWA; 100 ppm TWA
656 mg/m³ STEL; 125 ppm STEL
Yukon: 100 ppm TWA; 575 mg/m³ TWA
150 ppm STEL; 720 mg/m³ STEL



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PETROLEUM DISTILLATES (Not Available)

- British: 200 mg/m³ TWA (as total hydrocarbon vapour) (related to Kerosene)
Columbia: Skin notation (related to Kerosene)
Manitoba: 200 mg/m³ TWA (application restricted to conditions in which there are negligible aerosol exposures) (related to Kerosene)
Skin - potential significant contribution to overall exposure by the cutaneous route (related to Kerosene)
Nova Scotia: 200 mg/m³ TWA (application restricted to conditions in which there are negligible aerosol exposures) (related to Kerosene)
Skin - potential significant contribution to overall exposure by the cutaneous route (related to Kerosene)
Ontario: 200 mg/m³ TWAEV (as total hydrocarbon vapour) (related to Kerosene)
Absorption through skin, eyes, or mucous membranes (related to Kerosene)

XYLENE (1330-20-7)

- Alberta: 100 ppm TWA; 434 mg/m³ TWA
150 ppm STEL; 651 mg/m³ STEL
British: 100 ppm TWA
Columbia: 150 ppm STEL
Manitoba: 100 ppm TWA
150 ppm STEL
New Brunswick: 100 ppm TWA; 434 mg/m³ TWA
150 ppm STEL; 651 mg/m³ STEL
NW Territories: 100 ppm TWA; 434 mg/m³ TWA
150 ppm STEL; 652 mg/m³ STEL
Skin notation
Nova Scotia: 100 ppm TWA
150 ppm STEL
Nunavut: 100 ppm TWA; 434 mg/m³ TWA
150 ppm STEL; 652 mg/m³ STEL
Skin notation
Ontario: 100 ppm TWAEV; 435 mg/m³ TWAEV
150 ppm STEV; 650 mg/m³ STEV
Quebec: 150 ppm STEV; 651 mg/m³ STEV
100 ppm TWAEV; 434 mg/m³ TWAEV
Saskatchewan: 434 mg/m³ TWA; 100 ppm TWA
651 mg/m³ STEL; 150 ppm STEL
Yukon: 100 ppm TWA; 435 mg/m³ TWA
150 ppm STEL; 650 mg/m³ STEL
Skin notation

NAPHTHALENE (91-20-3)

- Alberta: 10 ppm TWA; 52 mg/m³ TWA
15 ppm STEL; 79 mg/m³ STEL
Substance may be readily absorbed through intact skin
British: 10 ppm TWA
Columbia: 15 ppm STEL
Skin notation
Manitoba: 10 ppm TWA
15 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route
New Brunswick: 10 ppm TWA; 52 mg/m³ TWA
15 ppm STEL; 79 mg/m³ STEL
NW Territories: 10 ppm TWA; 52 mg/m³ TWA
15 ppm STEL; 79 mg/m³ STEL
Nova Scotia: 10 ppm TWA
15 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route
Nunavut: 10 ppm TWA; 52 mg/m³ TWA



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	15 ppm STEL; 79 mg/m3 STEL
Ontario:	10 ppm TWAEV; 52 mg/m3 TWAEV 15 ppm STEV; 78 mg/m3 STEV
Quebec:	15 ppm STEV; 79 mg/m3 STEV 10 ppm TWAEV; 52 mg/m3 TWAEV
Saskatchewan:	52 mg/m3 TWA; 10 ppm TWA 79 mg/m3 STEL; 15 ppm STEL
Yukon:	10 ppm TWA; 50 mg/m3 TWA 15 ppm STEL; 75 mg/m3 STEL

Engineering Controls

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

PERSONAL PROTECTIVE EQUIPMENT

General

Use good industrial hygiene practices in handling this material. Avoid inhalation of mists/vapors and contact with skin and eyes.

Skin

Use appropriate hand protection.

Respiratory

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

Eyes

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

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

Appearance:	Amber	Odor:	Solvent
Physical State:	Liquid	Flash Point:	49°C (120°F)
Flash Point Method:	PMCC	Boiling Point:	Not Available
Melting Point:	Not Available	Pour Point:	-29°C (-20°F)
Specific Gravity:	0.8756	Bulk Density:	7.300 lbs/gal
Solubility (H2O):	Insoluble	Viscosity @ 40°C:	3.62 cSt
Vapor Pressure:	Not Available	Vapor Density:	Not Available
Auto Ignition:	Not Available	Lower Flammability Limit:	Not Available
Upper Flammability Limit:	Not Available	pH:	Not Available

*** 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.



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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

2-ETHYLHEXYL NITRATE (27247-96-7)

Inhalation LC50 Rat: >14 mg/L/4H; Oral LD50 Rat: >2000 mg/kg; Dermal LD50 Rabbit: >4820 mg/kg

PETROLEUM DISTILLATES (Not Available)

Inhalation LC50 Rat: 590 mg/m³/4H; Oral LD50 Rat: 7050 mg/kg; Dermal LD50 Rabbit: 2 mL/kg (related to Naphtha (petroleum), heavy aromatic)

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

1,3,5-TRIMETHYLBENZENE (108-67-8)

Inhalation LC50 Rat: 24 g/m³/4H; Oral LD50 Rat: 5000 mg/kg

XYLENE (1330-20-7)

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

NAPHTHALENE (91-20-3)

Inhalation LC50 Rat: >340 mg/m³/1H; Oral LD50 Rat: 490 mg/kg; Dermal LD50 Rat: >2500 mg/kg; Dermal LD50 Rabbit: >20 g/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 Kerosene)

XYLENE (1330-20-7)

ACGIH: A4 - Not Classifiable as a Human Carcinogen
IARC: Monograph 71 [1999], Monograph 47 [1989] (Group 3 (not classifiable))

NAPHTHALENE (91-20-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen
NTP: Reasonably Anticipated To Be A Carcinogen (Possible Select Carcinogen)
IARC: Monograph 82 [2002] (Group 2B (possibly carcinogenic to humans))

*** Section 12 - Ecological Information ***

Ecotoxicity

Components of this product are hazardous to aquatic life.



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***** 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

248, 2481

Shipping Name: Consumer Commodity, ORM-D

2485, 24830, 24853

Shipping Name: Flammable Liquid, n.o.s. (contains Petroleum Distillates and 2-Ethylhexyl Nitrate)

UN/NA #: 1993 **Hazard Class:** 3 **Packing Group:** III

Required Label(s): Flammable, Marine Pollutant

IMDG Information

248, 2481

Shipping Name: Flammable Liquid, n.o.s. (contains Petroleum Distillates and 2-Ethylhexyl Nitrate)

UN #: 1993 **Hazard Class:** 3 **Packing Group:** III **Flash Point:** 49°C

Required Label(s): Limited Quantity

2485, 24830, 24853

Shipping Name: Flammable Liquid, n.o.s. (contains Petroleum Distillates and 2-Ethylhexyl Nitrate)

UN #: 1993 **Hazard Class:** 3 **Packing Group:** III **Flash Point:** 49°C

Required Label(s): Flammable, Marine Pollutant

IATA Information

248, 2481

Shipping Name: Flammable Liquid, n.o.s. (contains Petroleum Distillates and 2-Ethylhexyl Nitrate)

UN #: 1993 **Hazard Class:** 3 **Packing Group:** III **Flash Point:** 49°C

Required Label(s): Limited Quantity

2485:

Shipping Name: Flammable Liquid, n.o.s. (contains Petroleum Distillates and 2-Ethylhexyl Nitrate)

UN #: 1993 **Hazard Class:** 3 **Packing Group:** III **Flash Point:** 49°C

Required Label(s): Flammable, Marine Pollutant

24830, 24853 – CARGO AIRCRAFT ONLY

Shipping Name: Flammable Liquid, n.o.s. (contains Petroleum Distillates and 2-Ethylhexyl Nitrate)

UN #: 1993 **Hazard Class:** 3 **Packing Group:** III **Flash Point:** 49°C

Required Label(s): Flammable, Marine Pollutant, Cargo Aircraft Only

***** 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).



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

SARA 313: 1.0 % de minimis concentration

XYLENE (1330-20-7)

SARA 313: 1.0 % de minimis concentration

CERCLA: 100 lb final RQ; 45.4 kg final RQ

NAPHTHALENE (91-20-3)

SARA 313: 0.1 % de minimis concentration

CERCLA: 100 lb final RQ; 45.4 kg final RQ

B: Component Marine Pollutants

This material contains one or more of the following chemicals required by US DOT to be identified as marine pollutants.

Component	CAS #	
2-ETHYLHEXYL NITRATE	27247-96-7	DOT regulated marine pollutant

C: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
2-ETHYLHEXYL NITRATE	27247-96-7	Yes	DSL	EINECS
MINERAL SPIRITS	8052-41-3	Yes	DSL	EINECS
1,2,4-TRIMETHYLBENZENE	95-63-6	Yes	DSL	EINECS
1,3,5-TRIMETHYLBENZENE	108-67-8	Yes	DSL	EINECS
XYLENE	1330-20-7	Yes	DSL	EINECS
NAPHTHALENE	91-20-3	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
MINERAL SPIRITS	8052-41-3	Yes	Yes	Yes	Yes	Yes	Yes
PETROLEUM DISTILLATES (¹related to Kerosine) (²related to Kerosene)	Not Available	No	Yes ¹	No	Yes ²	Yes ¹	Yes ²
1,2,4-TRIMETHYLBENZENE	95-63-6	No	Yes	Yes	Yes	Yes	No
1,3,5-TRIMETHYLBENZENE	108-67-8	Yes	Yes	No	Yes	No	No
XYLENE	1330-20-7	Yes	Yes	Yes	Yes	Yes	Yes
NAPHTHALENE	91-20-3	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
MINERAL SPIRITS	8052-41-3	1 %
1,2,4-TRIMETHYLBENZENE	95-63-6	0.1 %
1,3,5-TRIMETHYLBENZENE	108-67-8	0.1 %
NAPHTHALENE	91-20-3	1 %

*** Section 16 - Other Information ***

Other Information

We believe the statements, technical information and recommendations contained herein are reliable, but



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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 Information

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End of MSDS 248