



Material Safety Data Sheet

C+ Cetane Improver Concentrate

MSDS ID: 228

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

Part Number: 228 (All Sizes)

Product Use: Diesel Fuel Additive

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 IF ABSORBED THROUGH SKIN OR IF INHALED!
- ASPIRATION HAZARD IF SWALLOWED!
- COMBUSTIBLE! Do not use or store near flames, sparks, or hot surfaces.
- VAPOR MAY CAUSE FLASH FIRE! When heated above 100°C/212°F may undergo a self-accelerating, exothermic reaction which causes a rapid rise in temperature and pressure. Rupture of storage vessels and fire should be anticipated in case of such temperature.
- EYE AND SKIN IRRITANT! Avoid contact with eyes, skin, and clothing. 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	60-100

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 persists, get medical attention.

Ingestion

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

Material Safety Data Sheet

C+ Cetane Improver Concentrate

MSDS ID: 228

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: 1

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

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Material Safety Data Sheet

C+ Cetane Improver Concentrate

MSDS ID: 228

B: Canadian Provincial Exposure Limits

Provincial exposure limits have not been developed for any of this product's components.

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:	colorless to light yellow	Odor:	Fruity, Pungent, Ester
Physical State:	Liquid	Flash Point:	65°C (149°F)
Flash Point Method:	PMCC	Boiling Point:	Not Available
Melting Point:	Not Available	Specific Gravity:	0.96
Bulk Density:	8.012 lbs/gal	Solubility (H2O):	12.6 mg/L @ 20°C
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.

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.

Material Safety Data Sheet

C+ Cetane Improver Concentrate

MSDS ID: 228

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

Carcinogenicity

A: General Product Information

No carcinogenicity data available for this product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

*** 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: Environmentally Hazardous Substance, Liquid, n.o.s. (contains 2-ethylhexyl nitrate)

UN #: UN3082 **Hazard Class:** 9 **Packing Group:** III

Required Label(s): Miscellaneous, Marine Pollutant

IMDG Information

Shipping Name: Environmentally Hazardous Substance, Liquid, n.o.s. (contains 2-ethylhexyl nitrate)

UN #: UN3082 **Hazard Class:** 9 **Packing Group:** III

Required Label(s): Miscellaneous, Marine Pollutant

IATA Information

Shipping Name: Environmentally Hazardous Substance, Liquid, n.o.s. (contains 2-ethylhexyl nitrate)

UN #: UN3082 **Hazard Class:** 9 **Packing Group:** III

Required Label(s): Miscellaneous, Marine Pollutant

*** 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

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

Material Safety Data Sheet

C+ Cetane Improver Concentrate

MSDS ID: 228

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

State Regulations

Other state regulations may apply. Check individual state requirements.

Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

*** 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 Information

Kolin Anglin, Environmental Coordinator
(316) 265-2686
msds@bgprod.com

End of MSDS 228