



Material Safety Data Sheet

Non-Chlorinated Brake Cleaner, Low VOC (Bulk) -
California Compliant

MSDS ID: 403BCC

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

Part Number: 403BCC

Product Use: Non-Chlorinated Brake Cleaner

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

DANGER

- EXTREMELY FLAMMABLE! Do not use or store near flames, sparks, or hot surfaces.
- HARMFUL OR FATAL IF SWALLOWED!
- VAPOR HARMFUL! Avoid prolonged breathing of fumes. Use with adequate ventilation.
- EYE AND SKIN IRRITANT! Avoid contact with eyes, skin, and clothing.

HMIS Ratings: Health: 2 Fire: 3 Physical Hazard: 0 Pers. Prot.: C

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

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

CAS #	Component	Percent
1330-20-7	XYLENE	7-13
67-64-1	ACETONE	7-13
64742-89-8	LIGHT ALIPHATIC SOLVENT NAPHTHA	7-13
67-56-1	METHANOL	3-7
100-41-4	ETHYL BENZENE	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 ***

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.

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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: 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.

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

A: Component Exposure Limits

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

ACETONE (67-64-1)

ACGIH: 500 ppm TWA
750 ppm STEL
OSHA: 750 ppm TWA; 1800 mg/m3 TWA
1000 ppm STEL; 2400 mg/m3 STEL (The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors)
NIOSH: 250 ppm TWA; 590 mg/m3 TWA

METHANOL (67-56-1)

ACGIH: 200 ppm TWA
250 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA: 200 ppm TWA; 260 mg/m3 TWA
250 ppm STEL; 325 mg/m3 STEL
Prevent or reduce skin absorption
NIOSH: 200 ppm TWA; 260 mg/m3 TWA
250 ppm STEL; 325 mg/m3 STEL
Potential for dermal absorption

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

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B: Canadian Provincial Exposure Limits

XYLENE (1330-20-7)

Alberta:	100 ppm TWA; 434 mg/m3 TWA 150 ppm STEL; 651 mg/m3 STEL
British Columbia:	100 ppm TWA
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:	100 ppm TWAEV; 434 mg/m3 TWAEV 150 ppm STEV; 651 mg/m3 STEV
Saskatchewan:	100 ppm TWA 150 ppm STEL
Yukon:	100 ppm TWA; 435 mg/m3 TWA 150 ppm STEL; 650 mg/m3 STEL Skin notation

ACETONE (67-64-1)

Alberta:	750 ppm TWA; 1800 mg/m3 TWA 1000 ppm STEL; 2400 mg/m3 STEL
British Columbia:	250 ppm TWA
Manitoba:	500 ppm TWA 750 ppm STEL
New Brunswick:	500 ppm TWA; 1188 mg/m3 TWA 750 ppm STEL; 1782 mg/m3 STEL
NW Territories:	1000 ppm TWA; 2370 mg/m3 TWA 1250 ppm STEL; 2970 mg/m3 STEL
Nova Scotia:	500 ppm TWA 750 ppm STEL
Nunavut:	1000 ppm TWA; 2370 mg/m3 TWA 1250 ppm STEL; 2970 mg/m3 STEL
Ontario:	500 ppm TWAEV 750 ppm STEV
Quebec:	500 ppm TWAEV; 1190 mg/m3 TWAEV 1000 ppm STEV; 2380 mg/m3 STEV
Saskatchewan:	500 ppm TWA 750 ppm STEL
Yukon:	1000 ppm TWA; 2400 mg/m3 TWA 1250 ppm STEL; 3000 mg/m3 STEL

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METHANOL (67-56-1)

Alberta: 200 ppm TWA; 262 mg/m³ TWA
250 ppm STEL; 328 mg/m³ STEL
Substance may be readily absorbed through intact skin

British Columbia: 200 ppm TWA
250 ppm STEL
Skin notation

Manitoba: 200 ppm TWA
250 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route

New Brunswick: 200 ppm TWA; 262 mg/m³ TWA
250 ppm STEL; 328 mg/m³ STEL
Skin - potential for cutaneous absorption

NW Territories: 200 ppm TWA; 262 mg/m³ TWA
250 ppm STEL; 328 mg/m³ STEL
Skin notation

Nova Scotia: 200 ppm TWA
250 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route

Nunavut: 200 ppm TWA; 262 mg/m³ TWA
250 ppm STEL; 328 mg/m³ STEL
Skin notation

Ontario: 200 ppm TWAEV; 260 mg/m³ TWAEV
250 ppm STEV; 325 mg/m³ STEV
Absorption through skin, eyes, or mucous membranes

Quebec: 250 ppm STEV; 328 mg/m³ STEV
200 ppm TWAEV; 262 mg/m³ TWAEV
Skin designation

Saskatchewan: 200 ppm TWA
250 ppm STEL

Yukon: 200 ppm TWA; 260 mg/m³ TWA
250 ppm STEL; 310 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
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: 100 ppm TWA
125 ppm STEL

Yukon: 100 ppm TWA; 435 mg/m³ TWA
125 ppm STEL; 545 mg/m³ STEL

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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. Use of an impervious apron is recommended.

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:	Clear/Colorless	Odor:	Solvent
Physical State:	Liquid	Flash Point:	-20°C (-4°F)
Flash Point Method:	TCC	Boiling Point:	70°C (158°F)
Melting Point:	Not Determined	Pour Point:	-40°C (40°F)
Specific Gravity:	0.782	Bulk Density:	6.52 lbs/gal
Solubility (H2O):	Negligible	Vapor Pressure:	18.92 kPa
Vapor Density:	2.4	Auto Ignition:	Not Available
Lower Flammability Limit:	2.6%	Upper Flammability Limit:	12.8%
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.

B: Component Analysis - LD50/LC50

XYLENE (1330-20-7)

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Inhalation LC50 Rat: 5000 ppm/4H; Inhalation LC50 Rat:47635 mg/L/4H; Oral LD50 Rat:4300 mg/kg;
Dermal LD50 Rabbit:>1700 mg/kg

LIGHT ALIPHATIC SOLVENT NAPHTHA (64742-89-8)

Oral LD50 Rat: 5000 mg/kg; Dermal LD50 Rabbit: 3000 mg/kg

ACETONE (67-64-1)

Oral LD50 Rat: 5800 mg/kg

METHANOL (67-56-1)

Inhalation LC50 Rat: 83.2 mg/L/4H; Inhalation LC50 Rat:64000 ppm/4H; Oral LD50 Rat:5628 mg/kg;
Dermal LD50 Rabbit:15800 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

XYLENE (1330-20-7)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999], Monograph 47 [1989] (Group 3 (not classifiable))

ACETONE (67-64-1)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

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: Flammable Liquid, n.o.s. (Contains Xylene, Acetone)

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

Required Label(s): Flammable

IMDG Information

Shipping Name: Flammable Liquid, n.o.s. (Contains Xylene, Acetone)

UN #: 1993 **Hazard Class:** 3 **Packing Group:** II **Flash Point:** -20°C

Required Label(s): Flammable

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IATA Information

4035CC: Shipping Name: CARGO AIRCRAFT ONLY

Flammable Liquid, n.o.s. (Contains Xylene, Acetone)

UN #: 1993 Hazard Class: 3 Packing Group: II Flash Point: -20°C

Required Label(s): Flammable, Cargo Aircraft Only

40316CC, 40330CC, 40355CC: CANNOT SHIP BY AIR

*** 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

ACETONE (67-64-1)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

METHANOL (67-56-1)

SARA 313: 1.0 % de minimis concentration

CERCLA: 5000 lb final RQ; 2270 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
LIGHT ALIPHATIC SOLVENT NAPHTHA	64742-89-8	Yes	DSL	EINECS
ACETONE	67-64-1	Yes	DSL	EINECS
METHANOL	67-56-1	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
XYLENE	1330-20-7	Yes	Yes	Yes	Yes	Yes	Yes
ACETONE	67-64-1	Yes	Yes	Yes	Yes	Yes	Yes
METHANOL	67-56-1	Yes	Yes	Yes	Yes	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.

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Component Analysis - WHMIS IDL

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

Component	CAS #	Minimum Concentration
ACETONE	67-64-1	1 %
METHANOL	67-56-1	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.

Contact Information

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End of MSDS 403BCC