



SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label : **BRAKE CLEANER NON-CHLORINATED**

Product Code(s) M705C
Tariff code 3814.00.5090
Recommended use Brake Cleaner
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Blumenthal Brands Integrated, LLC
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SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Aerosol spray. Clear liquid. Hydrocarbon odour.

Most important hazards:

Extremely flammable aerosol. May be ignited by open flames and sparks. Contents under pressure. Container may explode if heated. May cause moderate to severe skin irritation. Inhalation may cause central nervous system depression. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

Very toxic to aquatic life with long lasting effects. Avoid release to the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:

Flammable aerosol - Category 1
Gases under pressure
Skin corrosion/irritation - Category 2
Specific target organ toxicity, single exposure - Category 3 (Narcotic effects)
Aspiration toxicity - Category 1

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause drowsiness or dizziness.

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Precautionary statement(s)

Keep away from heat, sparks and open flame - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing mist or vapours. Wash hands and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash it before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:

Toxic fumes may be released during a fire. Direct eye contact may cause slight redness. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache). Prolonged overexposure may cause slight kidney effects, such as increased organ weight.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration(% by weight)</u>
Heptane, branched, cyclic and linear	Dipropylmethane Heptyl hydride	426260-76-6	80.0 - 100.0
Carbon dioxide	Carbonic anhydride	124-38-9	1.0 - 5.0

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
- Inhalation* : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stops, provide artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin contact* : IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash it before reuse.
- Eye contact* : Immediately flush eyes with running water for at least 5 to 10 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation or symptoms develop, seek medical attention.

Most important symptoms and effects, both acute and delayed

- : May be fatal if swallowed and enters airways. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
- Causes skin irritation. Symptoms may include redness, blistering, pain and swelling. May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.
- Direct eye contact may cause slight redness.
- Mild respiratory irritant. May cause coughing and breathing difficulties.
- Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).
- Prolonged overexposure may cause slight kidney effects, such as increased organ weight.

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Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
Provide general supportive measures and treat symptomatically.
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Carbon dioxide (CO₂); Dry chemical; Alcohol resistant foam; Water fog .

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Vapours are heavier than air and may spread along floors. Material will float on water and can be re-ignited at the water's surface. This product is contained under pressure, and could explode when exposed to heat and flame.

Hazardous combustion products

- : Carbon oxides; Other unidentified organic compounds.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Shield personnel to protect from venting or rupturing containers. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Wear appropriate protective equipment. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

- : Prevent product from entering drains, sewers, waterways and soil. Avoid release to the environment.

Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities. .
Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Use only outdoors or in a well-ventilated area. Wear suitable protective equipment during handling. Wear protective gloves. Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flame - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Keep away from incompatibles. Always replace cap after use. Wash thoroughly after handling.

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- Conditions for safe storage** : Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F. Do not store near any incompatible materials (see Section 10).
- Incompatible materials** : Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Heptane, branched, cyclic and linear	400 ppm (n-Heptane)	500 ppm (n-Heptane)	500 ppm (2000 mg/m ³) (n-Heptane)	N/Av
Carbon dioxide	5000 ppm	30 000 ppm	5000 ppm (9000 mg/m ³)	N/Av

Exposure controls

Ventilation and engineering measures

- : Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

- Respiratory protection** : If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Refer to CSA Z94.3 or other appropriate standards. Advice should be sought from respiratory protection specialists.

- Skin protection** : Wear impervious gloves, such as nitrile rubber. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Depending on conditions of use, an impervious apron should be worn.

- Eye / face protection** : Chemical splash goggles are recommended.

- Other protective equipment** : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

- : Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Clear liquid, contained in a pressurized aerosol can.

- Odour** : Hydrocarbon odour.

- Odour threshold** : N/Av

- pH** : N/Av

- Melting/Freezing point** : N/Av

Initial boiling point and boiling range

- : 94°C (201°F) (concentrate)

- Flash point** : - 8°C (17.6°F) (Heptane)

- Flashpoint (Method)** : closed cup

- Evaporation rate (BuAe = 1)** : > 1 (butyl acetate = 1)

- Flammability (solid, gas)** : Not applicable.

Lower flammable limit (% by vol.)

- : 1.2% (Heptane)

Upper flammable limit (% by vol.)

- : 6.7% (Heptane)

- Oxidizing properties** : None.

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Explosive properties : Aerosols are sensitive to mechanical impact. Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time.

Vapour pressure : 45 mmHg @ 25°C (77°F) (Heptane)

Vapour density : > 1 (Air = 1)

Relative density / Specific gravity : 0.8 (concentrate)

Solubility in water : slightly soluble

Other solubility(ies) : N/Av

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution : N/Av

Auto-ignition temperature : N/Av

Decomposition temperature : N/Av

Viscosity : < 20 mm²/sec (concentrate)

Volatiles (% by weight) : 100%

Volatile organic Compounds (VOC's) : N/Av

Absolute pressure of container : N/Av

Flame projection length : > 100 cm

Other physical/chemical comments : Chemical heat of combustion: 38.95 kJ/g

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Hazardous polymerization does not occur.

Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption : NO

Potential Health Effects:**Signs and symptoms of short-term (acute) exposure***Sign and symptoms Inhalation*

- Mild respiratory irritant. May cause coughing and breathing difficulties. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. In extremely high concentrations, product may act as an asphyxiant and cause increased breathing and pulse rates, fatigue and unconsciousness.

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Sign and symptoms ingestion

- : May be fatal if swallowed and enters airways. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

Sign and symptoms skin

- : May cause moderate to severe skin irritation. Symptoms may include redness, blistering, pain and swelling. If product is sprayed directly on skin, symptoms of frostbite may be experienced including numbness, prickling and itching.

Sign and symptoms eyes

- : Direct eye contact may cause slight redness. If product is sprayed directly into the eyes, could cause freezing of the eye.

Potential Chronic Health Effects

- : Prolonged overexposure may cause slight kidney effects, such as increased organ weight.

Mutagenicity

- : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

- : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

- : Not expected to cause reproductive effects.

Sensitization to material

- : No data available to indicate product or components may be respiratory sensitizers. No data available to indicate product or components may be skin sensitizers.

Specific target organ effects

- : This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Specific target organ toxicity, single exposure - Category 3. May cause drowsiness or dizziness.

Medical conditions aggravated by overexposure

- : Pre-existing skin, eye, respiratory and central nervous system disorders.

Synergistic materials

- : None known or reported by the manufacturer.

Toxicological data

- : No data is available on the product itself. See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	LC₅₀(4hr)	LD₅₀	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Heptane, branched, cyclic and linear	25 000 ppm (102.5 mg/L) (vapour) (Read-across)	N/Av mg/kg (Read-across)	> 2000 mg/kg (No mortality) (Read-across)
Carbon dioxide	200 000 ppm/2H (141 421 ppm/4H)	N/Ap(gas)	N/Ap(gas)

Other important toxicological hazards

- : None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

- : Very toxic to aquatic life with long lasting effects. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. The product contains the following substances which are hazardous for the environment: Heptane.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC₅₀ / 96h	NOEC / 21 day	M Factor
Heptane, branched, cyclic and linear	426260-76-6	5.738 mg/L (Rainbow trout) (Read-across)	1.284 mg/L/28-day (Rainbow trout)	None.
Carbon dioxide	124-38-9	N/Ap	N/Ap	N/Ap

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<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Heptane, branched, cyclic and linear	426260-76-6	0.2 mg/L Chaetogammarus marinus (Water flea) (Read-across)	0.06 - 0.23 mg/L	1
Carbon dioxide	124-38-9	N/Ap	N/Ap	N/Ap

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Heptane, branched, cyclic and linear	426260-76-6	4.338 mg/L/72hr (Green algae) (Read-across)	0.97 mg/L/72hr	None.
Carbon dioxide	124-38-9	N/Ap	N/Ap	N/Ap

Persistence and degradability

- : The product itself has not been tested.
The following ingredients are considered to be readily biodegradable: Heptane.

Bioaccumulation potential

- : The product itself has not been tested. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/ater (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Heptane, branched, cyclic and linear (CAS 426260-76-6)	4.66 (Read-across)	2000 (Read-across)
Carbon dioxide (CAS 124-38-9)		no bioaccumulation

Mobility in soil : The product itself has not been tested.

Other Adverse Environmental effects

- : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

- : This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations.

Methods of Disposal

- : Dispose of in accordance with federal, provincial and local hazardous waste laws.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN1950	AEROSOLS, flammable	2.1	none	
TDG Additional information	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass.				

Special precautions for user : Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame - No smoking.

Environmental hazards : This product meets the criteria for an environmentally hazardous material according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- : Not applicable.

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SECTION 15 - REGULATORY INFORMATION

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product does not contain any substances listed on the NPRI.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECS</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>NewZealand IOC</u>
Heptane, branched, cyclic and linear	426260-76-6	205-563-8 (Heptane)	Present	Present	(2)-7 (Heptane)	KE-18271	Present	HSR001164
Carbon dioxide	124-38-9	204-696-9	Present	Present	(1)-310; (1)-169	KE-04683	Present	HSR001018

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
CAS: Chemical Abstract Services
CSA: Canadian Standards Association
EC50: Effective Concentration 50%
EINECS: European Inventory of Existing Commercial chemical Substances
ENCS: Existing and New Chemical Substances
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IBC: Intermediate Bulk Container
IECSC: Inventory of Existing Chemical Substances
IMDG: International Maritime Dangerous Goods
IOC: Inventory of Chemicals
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RTECS: Registry of Toxic Effects of Chemical Substances
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

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References : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
2. International Agency for Research on Cancer Monographs, searched 2019.
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2019 (Chempendium, HSDB and RTECs).
4. Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - June 2019 version.
6. California Proposition 65 List - June 2019 version.
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.

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: 3

Revision Information

: (M)SDS sections updated: 1. IDENTIFICATION; 2. HAZARDS IDENTIFICATION; 9. PHYSICAL AND CHEMICAL PROPERTIES

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

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