# Safety Data Sheet

according to OSHA Hazard Communication 29 CFR Part 1910.1200

## SECTION 1. Identification

**Product Code** 

17-CMC

Product Name:

Brake Cleaner

Supplied by:

Chemical Marketing Corporation

9945 Flanders Court NE Blaine, MN 55449

(763) 785-0055

E-Mail: sbaker@chemmktg.com

24 Hour Emergency:

CHEMTRAC:

1-800-424-9300

Health: LA Poison

1800-356-3129

NOTE: Emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

## SECTION 2. Hazard(s) Identification

\*\*\* EMERGENCY OVERVIEW \*\*\*: Highly flammable liquid and vapor. May be fatal or cause blindness if swallowed. May be fatal if inhaled. Can cause permanent injury to the eyes.

#### **GHS Classification**

Eye Irrit. 2, Flam. Liq. 2, Lact. Effect, Repr. 1A, STOT RE 2, STOT SE 2, STOT SE 3 NE, STOT SE 3 RTI, Skin Irrit. 2

#### Symbol(s) of Product







Signal Word Danger

P260

P263

#### **GHS HAZARD STATEMENTS**

Flammable Liquid, category 2		H225	Highly flammable liquid and vapor.
Skin Irritation, category 2		H315	Causes skin irritation.
Eye Irritation, category 2		H319	Causes serious eye irritation.
STOT, single exposure, category 3, R	RTI	H335	May cause respiratory irritation.
STOT, single exposure, category 3, N	١E	H336	May cause drowsiness or dizziness.
Reproductive Toxicity, category 1A		H360	May damage fertility or the unborn child.
Effects on or via lactation		H362	May cause harm to breast-fed children.
STOT, single exposure, category 2		H371	May cause damage to organs.
STOT, repeated exposure, category 2	2	H373	May cause damage to organs through prolonged or repeated exposure.

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GHS PRECAUTIONARY STATEMENTS		
P201	Obtain specia	al instructions before use.
P202	Do not handl	e until all safety precautions have been read and understood.
P210	Keep away fr smoking.	om heat, hot surfaces, sparks, open flames and other ignition sources. No
P240	Ground/bond	container and receiving equipment.
P241	Use explosio	n-proof electrical/ventilating/lighting/equipment.
P242	Use only non	-sparking tools.
P243	Take precaut	ionary measures against static discharge.

Do not breathe dust/fume/gas/mist/vapors/spray.

Avoid contact during pregnancy/while nursing.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor/physician

IF exposed or concerned: Get medical advice/attention. P308+P313 Call a POISON CENTER/doctor/physician if you feel unwell. P312 P314 Get medical advice/attention if you feel unwell. Specific treatment (see first aid section on this label). P321 If skin irritation occurs: Get medical advice/attention. P332+P313 If eye irritation persists: Get medical advice/attention. P337+P313 Take off contaminated clothing and wash it before reuse. P362+P364 In case of fire: Use appropriate method to extinguish. P370+P378

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

## SECTION 3. Composition/Information on Ingredients

Chemical Name	CAS-No.	Wt. %	GHS Symbols	GHS Statements
Naphtha (petroleum), hydrotreated light	64742-49-0	25-50	GHS02-GHS07- GHS08	H225-304-315-335-336-361-373
n-hexane	110-54-3	25-50	GHS02-GHS07- GHS08	H225-315-332-335-336-361-373
2-propanol	67-63-0	10-25	GHS02-GHS07	H225-319-336
Methanol	67-56-1	2.5-10	GHS02-GHS07- GHS08	H225-332-360-362-370
Cylcohexane	110-82-7	1.0-2.5	GHS02-GHS07- GHS08	H225-315-319-335-361

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

## SECTION 4. First-Aid Measures



FIRST AID - EYE CONTACT: Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly. Remove contact lenses if worn. Retract eyelids often.

FIRST AID - SKIN CONTACT: If sticky, use waterless cleaner first. Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately and clean shoes before reuse.

FIRST AID - INHALATION: Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

FIRST AID - INGESTION: Do not induce vomiting. Do not give liquids. Obtain emergency medical attention.

## SECTION 5. Fire-Fighting Measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: Highly flammable liquid and vapor. May cause flash fire or explosion. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning.

SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH

approved or equivalent) and full protective gear. Avoid use of solid water streams. Use water with caution. Material will float and may ignite on surface of water. Water may be ineffective in fighting the fire. Water spray to cool containers or protect personnel. Use with caution. Use water spray to knock down vapors. Water runoff can cause environmental damage. Dike and collect water used to fight fire. Small fires: Dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Large fires: Water spray, water fog, and alcohol-resistant foam.

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, Water Fog

## SECTION 6. Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASE OR SPILLED: Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.) Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. A vapor supressing foam may be used to reduce vapors. A vapor supressing foam or water mist/spray may be used to disperse vapors. If leak or spill has not ignited, use water spray to disperse the vapors. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Remove from surface by skimming or with suitable absorbents. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Recover by pumping (use an explosion proof or hand pump).

## SECTION 7. Handling and Storage





HANDLING: Use only in a well ventilated area. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing. Take precautionary measures against static discharge. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Always open containers slowly to allow any excess pressure to vent. Follow all MSDS/label precautions even after containers are emptied because they may retain product residues.

STORAGE: Keep away from heat, sparks, and flame. Containers can build up pressure if exposed to heat (fire). Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight. Static Discharge, materials can accumulate static charges which can cause an incendiary electrical discharge. Material is a static accumulator which has the potential of forming ignitable vapor-air mixtures in storage tanks. Blanket storage with inert gas.

## SECTION 8. Exposure Controls/Personal Protection

#### Ingredients with Occupational Exposure Limits

Cnemical Name	ACGIT ILV-IWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Naphtha (petroleum), hydrotreated light	500 ppm	1000 ppm	500 ppm	N.D.
n-hexane	50 ppm	N.D.	500 ppm	N.D.
2-propanol	200 ppm	400 ppm	400 ppm	N.D.
Methanol	200 ppm	250 ppm	200 ppm	N.D.
Cylcohexane	100 ppm	N.D.	300 ppm	N.D.

#### Personal Protection



RESPIRATORY PROTECTION: Wear a MSHA/NIOSH approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.



**SKIN PROTECTION:** Wear impervious gloves to prevent contact with the skin. Wear long sleeves when contact is likely to occur. Wear protective gear as needed - apron, suit, boots.



EYE PROTECTION: Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).



OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.



HYGENIC PRACTICES: Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

## SECTION 9. Physical and Chemical Properties

Appearance: Clear, transparent liquid Physical State: Liquid Odor: Odor Threshold: Typical N.D. Density, g/cm3: pH: 0.694 N.D. Freeze Point, °F: N.D. Viscosity: N.D. Solubility in Water: Partial Explosive Limits, vol%: 1.2 - 36.0147 - 181 Boiling Range, °F: Flash Point, °F: 0 Auto-ignition Temp.. °F: N.D. **Evaporation Rate:** N.D. Vapor Density: Vapor Pressure: N.D. N.D.

(See "Other information" Section for abbreviation legend)

## SECTION 10. Stability and Reactivity

STABILITY: No Information

CONDITIONS TO AVOID: Avoid impact, friction, heat, sparks, flame and source of ignition.

INCOMPATIBILITY: Avoid contact with caustics. Keep separate from alkalies. Prevent contact with aldehydes. Avoid contact with chlorinated compounds. Avoid contact with hydrogen peroxide, chromic anhydride, nitric acid, mixed nitric/sulfuric acid, nitrosyl perchlorate, permonosulfuric acids, potassium tert-butoxide, sodium hypobromite, chlorinated melamine. Prevent contact with halogens. Prevent contact with strong oxidizing agents. Avoid contact with amines. Keep away from acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic gases/fumes are given off during burning or thermal decomposition. During combustion carbon monoxide may be formed. During combustion carbon dioxide may be formed. Combustion can lead to the formation of formaldehyde. Combustion can lead to formation of formic acid.

HAZARDOUS POLYMERIZATION: No Information

## SECTION 11. Toxicological Information



### Information on Toxicological Effects

EFFECTS OF OVEREXPOSURE - INHALATION: Toxic by inhalation. May be fatal if inhaled. Inhalation of high solvent vapor or mist concentrations can cause coma and death. Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and stupor (CNS depression). Overexposure may cause lung damage. Irritating to the respiratory system. May cause drowsiness and dizziness. May cause peripheral nervous system disorder and/or damage.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Causes skin irritation. Skin absorption may add significantly to the overall toxic effect. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Moderately irritating to the eyes causing transient corneal injury. Contact with the eye may cause mild irritation. Symptoms may include stinging, tearing, redness and swelling.

EFFECTS OF OVEREXPOSURE - INGESTION: May be fatal or cause blindness if swallowed. Harmful or fatal if liquid is aspirated into lungs. Irritating to mouth, throat, and stomach. Can be readily absorbed by the stomach and intestinal tract. Symptoms include burning sensation of the mouth and esophagus, nausea, vomiting, diarrhea, dizziness, staggering gait, drowsiness, loss of consciousness and delerium as well as additional central nervous system effects. Incidentally swallowing small amounts as a result of normal handling operations is not likely to cause injury; however, swallowing larger amounts may cause injury. Overexposure may cause nausea, diarrhea, and/or vomiting. May cause central nervous system depression. May cause headache.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Material is slowly eliminated from the body, therefore it can have cummulative toxicity effects with repeated exposures. Possible brain damage from overexposure. Overexposure may cause nervous system damage. May cause delayed lung damage. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema. A component of this product is a potential hazard to the fetus. Vapors irritating to eyes and respiratory tract. Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, central nervous system, kidney, liver, skin, and/or eyes.

Primary Route(s) of Entry: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

### Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No. 64742-49-0	Name according to EEC  Naphtha (petroleum), hydrotreated light	Oral LD50, mg/kg 5170	Dermal LD50, mg/kg >2000	Vapor LC50, mg/L >3367
110-54-3	n-hexane	>5000	>2000	>3367
67-63-0	2-propanol	5,840	>12,800	>9988.0
67-56-1	Methanol	>2528.0	17000.0	128.2
110-82-7	Cylcohexane	>5000	>5000	>20.0

## SECTION 12. Ecological Information

**ECOLOGICAL INFORMATION:** No Information

## SECTION 13. Disposal Considerations



Always dispose of any waste in accordance with all local, state, and federal regulations.

DISPOSAL METHOD: Dispose of waste in accordance with all local, state and federal regulations.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASE OR SPILLED: Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.) Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. A vapor supressing foam may be used to reduce vapors. A vapor supressing foam or water mist/spray may be used to disperse vapors. If leak or spill has not ignited, use water spray to disperse the vapors. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Remove from surface by skimming or with suitable absorbents. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Recover by pumping (use an explosion proof or hand pump).

## SECTION 14. Transport Information

**DOT Proper Shipping** 

Flammable liquids, n.o.s. (hexane,

Packing Group:

11

Name:

DOT Hazard Class:

3

Hazard SubClass:

No Information

DOT UN/NA Number:

UN1993

isopropyl alcohol)

Resp. Guide Page:

128

## SECTION 15. Regulatory Information

## U.S. Federal Regulations:

## CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

#### SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical NameCAS-No.n-hexane110-54-3

 Methanol
 67-56-1

 Cylcohexane
 110-82-7

#### TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA components exist in this product.

## U.S. State Regulations:

## NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product.

No NJ Right-To-Know components exist in this product.

#### PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product are at or greater than 3%.

No PA Right-To-Know components exist in this product.

## CALIFORNIA PROPOSITION 65 CARCINOGENS

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

No Proposition 65 Carcinogens exist in this product.

#### CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

Chemical Name

CAS-No.

Methanol

67-56-1

International Regulations: As follows -

#### CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

WHMIS Class:

No Information

#### SECTION 16. Other Information

Revision Date:

2/17/2015

Supersedes Date:

New SDS

Datasheet produced by:

EH&S - Regulatory Department

HMIS Ratings:

Health:	2	Flammability:	3	Reactivity:	0 - No Hazard	Personal Protection:	×	
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#### Volatile Organic Compounds, gr/ltr:

693

DISCLAIMER: THE VOLATILE ORGANIC COMPOUND (VOC) CONTENT REPORTED HEREIN, IF ANY, IS BASED ON A MATERIAL VOC CALCULATION. NOTE THAT SEVERAL METHODS ARE USED FOR CALCULATING VOC CONTENT AND THAT STANDARDS/REQUIREMENTS REGARDING VOC CONTENT VARY BY LOCATION/JURISDICTION. ACCORDINGLY, EMCO MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, REGARDING THIS MATERIAL'S COMPLIANCE WITH VOC STANDARDS/REQUIREMENTS APPLICABLE IN LOCATIONS/JURISDICTIONS WHERE THIS MATERIAL MAY BE SOLD OR USED.

#### Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360	May damage fertility or the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H362	May cause harm to breast-fed children.

H370

Causes damage to organs.

H373

May cause damage to organs through prolonged or repeated exposure.

Icons for GHS Pictograms shown in Section 3 describing each Ingredient:



Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

The information on this SDS was obtained from sources which we believe to be reliable. However, the information provided is without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information and recommendations are offered for the user's consideration and examination and should be used to make an independent determination of the methods to safeguard workers and the environment. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For these reasons we do not assume responsibility and expressly disclaim any liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS may not be applicable. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.