


# Safety Data Sheet

Section 1. Identification		
<b>Product Identifier</b>	<b>Brake Wash</b>	<b>Version: 6</b> <b>Effective Date: 4 December 2020</b>
<b>Other Means Of Identification</b>	None	
<b>Initial Supplier Identifier</b>	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
<b>Recommended Use And Restrictions On Use</b>	Brake Cleaner, no restrictions	
<b>Product Family</b>	Mixture	
<b>Emergency Phone</b>	1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST	

Section 2. Hazard Identification	
<b>Hazard Classification</b>	 <p>Flammable Liquids (Category 2)            Acute Toxicity, Oral (Category 3)            Acute Toxicity, Inhalation (Category 3)            Acute Toxicity, Dermal (Category 3)            Specific Target Organ Toxicity - Single Exposure - (Category 1)</p>
<b>Signal Word</b>	Danger
<b>Hazard Statement</b>	Highly flammable liquid and vapour. Toxic if swallowed. Toxic if inhaled. Toxic if there is contact with skin. Causes damage to organs.
<b>Precautionary Prevention Statements</b>	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion proof equipment and non-sparking tools. Take action to prevent static discharge. Wear protective gloves and clothing. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid breathing fumes. Use only outdoors or in a well ventilated area.

## Safety Data Sheet

<b>Precautionary Response Statement</b>	<p>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with plenty of water.</p> <p>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>Call a doctor if you feel unwell and have been exposed or concerned.</p> <p>Specific Treatment: Rinse mouth.</p> <p>In case of fire use water spray to cool containers and structures exposed to fire.</p>
<b>Precautionary Storage Statement</b>	Store in a well ventilated place and keep cool. Store locked up and keep container tightly closed
<b>Precautionary Disposal Response</b>	Dispose of contents / container in accordance with local regulations
<b>Other Hazards</b>	Highly flammable liquid and vapour. Toxic if swallowed. Toxic if inhaled. Toxic if there is contact with skin. Causes damage to organs.

### Section 3. Composition / Information on Ingredients

Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
Heptane	N/A	64742-49-0	70 – 90
Isopropyl alcohol	IPA	67-63-0	10 – 20
Methanol	Methyl alcohol	67-56-1	1 - 10
Balance of ingredients are considered non hazardous and constitute a proprietary blend			

### Section 4. First-Aid Measures

<b>Eye Contact</b>	Flush eyes with water for 15 minutes. Seek medical attention.
<b>Skin Contact</b>	Immediately take off all contaminated clothing. Flush area with water. If skin is damaged, seek immediate medical attention. If irritation persists seek medical attention. Launder clothing before reuse.
<b>Inhalation</b>	Remove victim to fresh air and keep them comfortable. If there is difficulty breathing, seek immediate medical attention.
<b>Ingestion</b>	Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention.
<b>Most Important Symptoms and Effects, Acute and Delayed</b>	Acute: Poison. May be fatal if swallowed. If swallowed there is a risk of blindness. Toxic if swallowed, in contact with skin or if inhaled. Ingestion causes nausea, weakness central nervous system effects, headache, vomiting, dizziness, and symptoms of drunkenness. Coma and death due to respiratory failure may follow severe exposures.

## Safety Data Sheet

	<p>Medical treatment necessary. A latent period of several hours may occur between exposure and the onset of symptoms.</p> <p>Delayed: Causes damage to organs through prolonged or repeated exposure.</p>
<b>Immediate Medical Attention and Special Treatment</b>	<p>Treat symptomatically and supportively. The severity of symptoms depends upon the length and concentration of the exposure. If ingested, get immediate medical attention. Antidote: Fomepizole enhances elimination of metabolic formic acid. Antidote should be administered by qualified medical personnel. Note to physicians: Treat symptomatically. The severity of outcome following methanol ingestion may be more related to the time between ingestion and treatment, rather than the amount ingested. Therefore, there is a need for rapid treatment of any ingestion exposure. Call a POISON CENTER.</p>

### Section 5. Fire-Fighting Measures

<b>Suitable and Unsuitable Extinguishing Media</b>	<p>Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.</p> <p>Do not use direct water jet.</p>
<b>Hazardous Combustion Products</b>	<p>Carbon monoxide</p>
<b>Specific Hazards Arising From the Product</b>	<p>Highly flammable liquid and vapor. Mixtures with &gt;20% methanol with water are flammable. May form an explosive mixture with air. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Containers may rupture or explode if exposed to heat. Dangerous gases may accumulate in confined spaces. Toxic</p>
<b>Special Protective Equipment and Precautions for Fire-Fighters</b>	<p>Fire-fighters should wear a self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire. May ignite if static discharge.</p>

### Section 6. Accidental Release Measures

<b>Personal Precautions, Protective Equipment, and Emergency Procedures</b>	<p>Gloves (neoprene), goggles/face shield, coveralls (flameproof), and footwear appropriate for worksite. Air purifying respirator (organic vapours/mists) if exposure limits are being exceeded. Move container from fire area if it can be done without risk. Do not breathe gas/fume/vapor/spray. Avoid contact with eyes and skin.</p>
<b>Environmental Precautions</b>	<p>Do not allow spilled product to enter watercourses or sewers. Notify local authorities if any product enters public water system.</p>
<b>Methods and Materials for</b>	<p>Absorb liquid, and place waste material in an appropriate container</p>

## Safety Data Sheet

<b>Containment and Clean-Up</b>	for disposal. Wash area with water and detergent. Remove all sources of ignition and static discharge.
---------------------------------	--

<b>Section 7. Handling and Storage</b>	
<b>Precautions for Safe Handling</b>	All bungs and seals should be kept closed when not in use. Containers should be grounded to prevent static discharge.
<b>Conditions for Safe Storage</b>	Containers should be kept in a well ventilated cool dry place. Keep locked up and tightly closed

<b>Section 8. Exposure Controls / Personal Protection</b>			
<b>Control Parameters</b>	<b>TWA: 8 Hr</b>	<b>STEL: 15 min</b>	<b>Ceiling</b>
<b>Heptane</b>	85 ppm (NIOSH) 500 ppm (OSHA)		400 ppm
<b>Isopropyl alcohol</b>	200 ppm (ACGIH)	400 ppm (ACGIH)	
<b>Methanol</b>	200 ppm (ACGIH)	250 ppm (ACGIH)	
<b>Exposure Controls</b>	Local exhaust ventilation to maintain exposure levels below legal limits.		
<b>Appropriate Engineering Controls</b>	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Use explosion-proof electrical/ventilating/lighting equipment. Handle substance within a closed system. Ground/bond container and receiving equipment. Maintain eye wash fountain and quick-drench shower in work area.		
<b>Individual Protective Measures Eye and Face Protection</b>	Glasses or goggles.		
<b>Skin Protection</b>	Neoprene or other chemical resistant material Chemical resistant gloves and coveralls.		
<b>Respiratory Protection</b>	Air purifying respirator fitted with cartridges (organic vapours/mists) must be worn if exposure limits are being exceeded.		

<b>Section 9. Physical and Chemical Properties</b>	
<b>Appearance</b>	Clear, colourless liquid
<b>Odour</b>	Petroleum odour
<b>Odour Threshold</b>	Not available.

## Safety Data Sheet

<b>pH</b>	Not available
<b>Flash Point</b>	-4 °C
<b>Boiling Point and Boiling Range</b>	Not available
<b>Melting Point / Freezing Point</b>	Not determined
<b>Evaporation Rate</b>	Not determined
<b>Flammability (solid, gas)</b>	N/A
<b>Upper and Lower Flammability or Explosive Limits</b>	No data
<b>Vapour Pressure</b>	Not determined
<b>Vapour Density</b>	Not determined
<b>Relative Density</b>	0.710
<b>Solubility</b>	Soluble
<b>Partition co-efficient, n-Octanol/Water</b>	No data
<b>Auto-ignition Temperature</b>	100
<b>Decomposition Temperature</b>	No data
<b>Viscosity</b>	No data

### Section 10. Stability and Reactivity

<b>Reactivity</b>	Containers may rupture or explode if exposed to heat.
<b>Chemical Stability</b>	Stable
<b>Possibility of Hazardous Reactions</b>	Will not occur
<b>Conditions to Avoid</b>	Open flames and sources of ignition
<b>Incompatible Materials</b>	Alkalis, strong acids, and strong oxidizing agents
<b>Hazardous Decomposition Products</b>	May form oxides of carbon and hydrocarbon by products

### Section 11. Toxicological Information

<b>Component Toxicity</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
Heptane	LD50>2,000mg/kg (Rat)	LD5>2,000 mg/kg (Rat)	LC50: 3400 ppm / 4hrs (Rat)
Isopropanol	LD50:4700 - 5800 mg/kg (Rat)	LD50:5030-7900 mg/kg (Rabbit)	LC50:16000 ppm (4 hrs, Rat)
Methanol	LD LO Human: 300 mg/kg, LD50: 6200 mg/kg(Rat)	LD50:15,800 mg/kg (Rabbit)	LC50: 64,000 ppm (4 hrs, Rat)

## Safety Data Sheet

<b>Likely Routes of Exposure</b>	
<b>Skin:</b>	Irritant. Prolonged or repeated contact may irritate the skin, causing dermatitis.
<b>Eyes:</b>	Irritant. Vapours will irritate the eyes. Liquid and mists will irritate and potentially burn.
<b>Inhalation:</b>	Hazardous by inhalation. May cause headache, nausea, vomiting, dizziness, central nervous system effects, and convulsions with repeated or extended contact.
<b>Ingestion:</b>	Extremely hazardous. May cause headache, nausea, vomiting and possible unconsciousness. Can also cause liver and kidney damage. Use of alcoholic beverages can enhance the toxic effects. Severe over-exposure can result in death.
<b>Acute Toxicity Estimates</b>	Poison. May be fatal if swallowed. If swallowed, there is a risk of blindness. Toxic if swallowed, in contact with skin, or if inhaled. Methanol: dermal 300 mg/kg, inhalation 3 mg/L, oral 100 mg/kg.
<b>STOT (Single Target Organ Toxicity) – Single Exposure</b>	Optic nerve, central nervous system
<b>Aspiration Toxicity</b>	May be fatal if swallowed and enters airways.
<b>STOT (Single Target Organ Toxicity) – Repeated Exposure</b>	Liver, kidney
<b>Skin Corrosion / Irritation</b>	Irritant
<b>Serious Eye Damage / Irritation</b>	Irritant
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Carcinogenicity</b>	No listed.
<b>Reproductive Toxicity</b>	
- <b>Sexual Function and Fertility</b>	Permanent testicular damage characterized by loss of germ cell line observed in rats
- <b>Development of Offspring</b>	n-hexane Rat: NOAEL Teratogenicity: 200 ppm NOAEL Maternal: 200 ppm
- <b>Effects on or via Lactation</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Mutation in mammalian somatic cells.
<b>Interactive Effects</b>	None known
<b>Other Information</b>	None known

# Safety Data Sheet

Section 12. Ecological Information	
<b>Ecotoxicity</b>	Not available Isopropyl alcohol; 5770 – 7450 mg/L Flathead minnow (96 h LC50) Methanol: 10,000 mg/L Water flea (48 h EC50)
<b>Persistence and Degradability</b>	This material is expected to be readily biodegradable.
<b>Bioaccumulative Potential</b>	Not available
<b>Biodegradability</b>	Isopropyl alcohol: biodegradable in water Methanol: readily biodegradable
<b>Mobility in Soil</b>	Not available
<b>Other Adverse Effects</b>	None

Section 13. Disposal Considerations	
<b>Disposal Considerations</b>	Dispose of in accordance with local, provincial and federal regulations

Section 14. Transport Information	
<b>UN Number</b>	1206
<b>UN Proper Shipping Name</b>	Heptane mixture
<b>Transport Hazard Class(es)</b>	3
<b>Packaging Group</b>	II
<b>Environmental Hazards</b>	Not applicable
<b>Bulk Transport</b>	Not applicable
<b>Special Precaution</b>	Not applicable
<b>DOT Erg#</b>	128

Section 15. Regulatory Information	
<b>Canada – DSL Inventory</b>	All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL) or exempt
<b>TSCA</b>	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
<b>Additional Information</b>	None



<b>Section 16. Other Information</b>	
<b>NFPA Rating</b>	Health-3/ Flammability-3/Reactivity-1/Special Hazard-Not applicable
<b>HMIS Rating</b>	Health-3/Flammability-3/Reactivity-0/Personal Protection-See Section 8.
<b>Prepared by:</b>	Chemfax Products Ltd., Technical Department
<b>Date Prepared:</b>	9 February 2012
<b>Date of Latest Revision:</b>	4 December 2020
<p><b>Disclaimer</b>            Notice to reader</p> <p>To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.</p> <p>Chemfax Products Ltd. expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided.</p>	