

**SDS: 2500-2 BRAKES & PARTS CLEANER**

**SECTION 1. IDENTIFICATION**

**Name of product:** Brake and parts cleaner.

**Other means of identification:** BC2500-19, BC2500-45.

**SDS number:** 2500-2

**Use of product:** Brake and parts cleaner

Please refer to Product label.

**Company Identification:**

HALL CHEM MFG. INC.

1270 rue Nobel

Boucherville QC J4B 5H1

Tel.: (450) 645-0296

Fax: (450) 645-0444

**EMERGENCY TELEPHONE NUMBER:**

**24-Hour Emergency Contact CANUTEC:** 613-996-6666

**Local Emergency Contact:** 613-996-6666

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification:**

Flammable liquids - Category 2; Skin irritation - Category 2; Cause eye irritation – Category 2A;  
Aspiration hazard- Category 1; Specific target organ toxicity (single exposure) – Category 3.

**GHS Label Elements:**

**Hazard pictograms:**



Signal Word:

Danger!

**Hazard Statement(s):**

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Cause serious eye irritation.

H336 May cause drowsiness or dizziness.

**Precautionary statements:**

**Prevention:**

P102 Keep out of reach of children.

P103 Read label before use.

P101 If medical advice is needed, have product container or label at hand.

P201 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P261 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash hands thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

## Precautionary statements:

### Response:

- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
IF exposed or concerned: Get medical advice/ attention.  
P331 Do NOT induce vomiting.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
If skin irritation occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash it before reuse.  
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Storage:

- P403 + P235 Store in a well-ventilated place.  
P405 Keep container tightly closed.

### Disposal:

- P501 Dispose of contents and empty container in accordance with local and national regulations.

### Other hazards:

FLAMABLE LIQUID! Keep away from heat, sparks and open flame. Avoid contact with skin, eyes and clothing. Do not breathe vapours, mists or aerosols. Do not ingest. If ingested consult physician immediately and show this Safety Data Sheet. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical name	%	CAS No
Hexane	80-90	110-54-3
Isopropanol	10-20	67-63-0

## SECTION 4. FIRST-AID MEASURES

Description of first aid measures:

**Inhalation:**

If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. Immediately call a poison center or doctor/physician.

**Skin contact:**

If on skin or hair, remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

**Contact with eyes:**

Rinse immediately and cautiously with water, pulling the eyelids well away from the eye for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Ensure that folded skin of eyelids is thoroughly washed with water. Obtain medical attention if pain, blinking or redness persists.

**Ingestion:**

If swallowed immediately call a POISON CENTRE or doctor. Rinse mouth. Do not induce vomiting. In actual or suspected cases of ingestion, transport to medical facility immediately. (See note to physician)

**Most important symptoms and effects, acute and delayed:****Symptoms/injuries after inhalation:**

May cause respiratory tract irritation. May cause drowsiness or dizziness.

**Symptoms/injuries after skin contact:**

Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

**Symptoms/injuries after eye contact:**

Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Symptoms/injuries after ingestion:**

May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

**Immediate medical attention and special treatment:**

Treat symptomatically. Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

<b>SECTION 5. FIRE-FIGHTING MEASURES</b>
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**Extinguishing methods:**

**Suitable extinguishing media:** Alcohol foam, carbon dioxide, dry chemical.

**Unsuitable extinguishing media:** Do NOT use water jet.

**Fire Hazard:**

Highly flammable liquid and vapour. Products of combustion may include, and are not limited to: oxides of carbon and other unidentified organics. May release flammable gases.

Vapours may travel along ground and flashback along vapour trail may occur. Sensible to static discharge.

**Advices for fire-fighters**

Special protective equipment: Wear a self-contained apparatus.

**Explosion hazard:**

May form flammable/explosive vapor-air mixture.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures:**

#### **General:**

Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

#### **Protective equipment:**

##### **For non-emergency personnel:**

#### **Protective equipment:**

Wear suitable protective clothing, gloves and eye or face protection.

#### **Emergency procedures:**

Evacuate unnecessary personnel.

##### **For emergency responders:**

#### **Protective equipment:**

Wear suitable protective clothing and eye or face protection.

#### **Emergency procedures:**

Remove ignition sources. Ensure adequate ventilation. Avoid inhalation of vapors. Avoid contact with eyes, skin and clothing.

#### **Environmental Precautions**

Prevent entry in sewer and other enclosed area. For a large spill, consult the Department of Environment or the relevant authorities.

#### **Methods and materials for containment and cleaning up**

Stop leak, if it's possible to do so without risk. Make sure you have a fire extinguisher near you.

Absorb with inert material (soil, sand, vermiculite) or wipe up or scrape up and place in an appropriate waste disposal container clearly identified. Use non-sparking and antistatic tools.

Dispose via a licensed waste disposal contractor. Finish cleaning by rinsing with water contaminated surface.

## SECTION 7. HANDLING AND STORAGE

### **Additional hazards when processed:**

Handle empty containers with care because residual vapours are flammable.

### **Precaution for safe handling:**

Handle and open the containers with precaution. Do not weld or cut the containers because they can contain residues from flammable vapors. Do not heat or pressurize containers. Do not put any non-compatible material in empty containers, violent chemical reactions can occur. Do not smoke, eat or drink on working areas. Respect a good personal hygiene after manipulation the product. Keep containers electrically grounded specially during manipulation while transferring, the material can accumulate statics.

### **Conditions for safe storage:**

Storage and handling should follow the NFPA 30 Flammable and/or Combustible Liquids Code and the National Fire Code of Canada (NFCC). Ground or bond large containers. Store tightly closed and in properly labelled containers in a cool, dry and well ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store away from oxidizing materials and incompatible materials (see section 10).

**Storage temperature** 10 to 20°C (50 to 68°F)

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters:

	ACGIH TLV®		NIOSH PEL		AIHA WEEL	
Chemical name	TWA	STEL	TWA H	Ceiling	8-hr	TWA
Hexane	400ppm	500ppm	350mg/m	1800mg/m		
Isopropanol	200ppm	400ppm	980mg/m			

### Engineering measures

Use only in well-ventilated areas.

Ensure that eyewash station and safety shower are proximal to the work-station location.

### Personal protective equipment

#### Respiratory protection:

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Filter type: NIOSH-approved air-purifying respirator with an organic vapour cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive-pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

### Individual protection measures

#### Eye/face protection:

Use safety glasses (with side shields). If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. If exposure causes eye discomfort, use a full-face respirator.

#### Body protection:

Wear chemical protective clothing e.g. gloves, aprons, and boots. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Protective measures: Wear suitable protective equipment.

### General safety and hygiene measures

Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Do not inhale gases/vapors/aerosols. Handle accordance with good industrial hygiene and safety practice. Wearing closed work clothing is recommended. No eating, drinking, smoking or tobacco use at the place of work.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

<b>Physical state :</b> Liquid	<b>Appearance :</b> Clear	<b>Odor :</b> Aliphatic	<b>Odor threshold :</b> Not available
<b>Vapor tension :</b> 130 mmHg at 20°C	<b>Vapor density (air=1):</b> 3,0 Heavier than air	<b>Evaporating rate(butyl acetate =1):</b> 9	
<b>Boiling point :</b> Not available	<b>Freezing point :</b> -93°C	<b>Conductivity :</b> >3.5 µS/cm	
<b>Density (g/mL) :</b> 0,684	<b>Distribution factor water/oil :</b> Not available	<b>Solubility in water(25°C) :</b> Not soluble	
<b>Flash point:</b> -23 °C T.C.C.	<b>Auto-ignition temperature:</b> 224°C	<b>Flammability lower/upper limit:</b> 1.2 vol % to 7.7 vol %	

NOTE: The physical data presented above are typical values and should not be construed as a specification.

**Flammability:** Highly flammable liquid and vapour.

**Explosive properties:**

## SECTION 10. STABILITY AND REACTIVITY

### Chemical stability

The product is stable if stored as prescribed/indicated. Hazardous polymerisation does not occur.

### Condition to avoid

Heat, flames , sparks and incompatible materials.

### Incompatible materials

Reactive with strong oxidising agents.

### Hazardous decomposition products

May release COx, reactive hydrocarbons, aldehydes, ketones, smoke and irritating vapours when heated to decomposition.

## SECTION 11. TOXICOLOGICAL INFORMATION

**Likely routes of exposure:** ingestion, inhalation, skin and eye.

**Acute toxicity (oral):** Not classified.

**Acute toxicity (dermal):** Not classified.

**Acute toxicity (inhalation):** Not classified.

Chemical name	LD50 oral rat mg/kg	DL50 Dermal rabbit mg/kg	CL50 Inhalation Rat (ppm)
Hexane	5000mg/kg	3000mg/kg	103 g/m <sup>3</sup> /4h
Isopropanol	1870 mg/kg	4059 mg/kg	72600 mg/m <sup>3</sup> /4h

**Skin Irritation/Corrosion:** Causes skin irritation.

**Serious eye damage/irritation:** Causes serious eye irritation.

**Respiratory or skin sensitization:** Not classified.

**Carcinogenicity :** Not classified.

**Germ cell mutagenicity:** Not classified.

**STOT-single exposure :** May cause drowsiness or dizziness.

**STOT-repeated exposure:** Not classified.

**Reproductive toxicity :** Not classified.

**Aspiration hazard:** May be fatal if swallowed and enters airways.

**Symptoms/injuries after inhalation :** May cause respiratory tract irritation. May cause drowsiness or dizziness.

**Symptoms/injuries after skin contact:** Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

**Symptoms/injuries after eye contact:** Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Symptoms/injuries after ingestion:** May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

**Other information:**

No additional information.

## SECTION 12. ECOLOGICAL INFORMATION

**Eco toxicity:**

Chemical name	LC50 fish 1	EC50 Daphnia
Hexane	375.0 mg/l (96 h - Cichlid fish)	
Isopropanol	9640 mg/l (96 h – Pimephales promelas [flow-through])	13299 mg/l (48 h - Daphnia magna)

**Persistence and degradability:**

Not persistent in aquatic environment.

**Bio accumulative potential:**

Chemical name	Partition coefficient n-octanol/water
Hexane	4.66
Isopropanol	0.05 (at 25 °C)

**Mobility in Soil:**

No additional information available

## SECTION 13. DISPOSAL CONSIDERATIONS



## Waste disposal recommendations:

This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

## Additional information:

Handle empty containers with care because residual vapours are flammable.

## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Regulation Class	Packing Group
Canadian TDG	UN1993	Flammable liquid, N.O.S. (hexane)	3	II

## SECTION 15. REGULATORY INFORMATION

### CEPA - Domestic Substances List (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

## SECTION 16. OTHER INFORMATION

Prepared by:  
Hall Chem Mfg. Inc.

Date / Revised: January 2018