

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/18/2014

Reviewed on 02/18/2014

## 1 Identification

- **Product identifier**
- **Trade name:** New Brake Cleaner (Non Chlor)
- **Article number:** 7053 PK
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Power Kleen Corporation  
101 South Bayview Blvd.  
OLDSMAR, FL 34677  
USA
- **Information department:** Product Safety Department
- **Emergency telephone number:** ChemTel Inc. (800) 255-3924 Intl. +01 (813) 248-0585



## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

STOT SE 2 H371-H336 May cause damage to organs. May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Additional information:**

This product contains Methanol which is poisonous to humans and other primates by ingestion, skin absorption, and inhalation causing permanent blindness, neurological damage and internal organ (Kidney) failure. It cannot be made non-poisonous. The wearing of requisite personal protective equipment is advised to limit prolonged exposure.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**  
heptane

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methanol

· **Hazard statements**

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause damage to organs. May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

· **Precautionary statements**

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

Keep out of reach of children.

Read label before use.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Store locked up.

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

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = \*2

Fire = 3

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

|          |             |         |
|----------|-------------|---------|
| 142-82-5 | heptane     | 50-100% |
| 67-63-0  | propan-2-ol | 10-25%  |
| 67-56-1  | methanol    | 2.5-10% |

### 4 First-aid measures

· **Description of first aid measures**

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Remove contact lenses if able to do so.  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
A person vomiting while lying on their back should be turned onto their side.  
Do not induce vomiting; immediately call for medical help.  
Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
Nausea  
Methaemoglobinaemia  
Unconsciousness  
Gastric or intestinal disorders  
Dizziness  
Headache
- **Danger**  
Causes Permanent Blindness  
Danger of disturbed cardiac rhythm.
- **Indication of any immediate medical attention and special treatment needed**  
Medical supervision for at least 48 hours.  
If swallowed or in case of vomiting, danger of entering the lungs.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

### 142-82-5 heptane

|     |   |
|-----|---|
| PEL | Long-term value: 2000 mg/m <sup>3</sup> , 500 ppm   |
| REL | Long-term value: 350 mg/m <sup>3</sup> , 85 ppm<br>Ceiling limit value: 1800* mg/m <sup>3</sup> , 440* ppm<br>*15-min |
| TLV | Short-term value: 2050 mg/m <sup>3</sup> , 500 ppm<br>Long-term value: 1640 mg/m <sup>3</sup> , 400 ppm               |

### 67-63-0 propan-2-ol

|     |  |
|-----|--|
| PEL | Long-term value: 980 mg/m <sup>3</sup> , 400 ppm   |
| REL | Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm<br>Long-term value: 980 mg/m <sup>3</sup> , 400 ppm       |
| TLV | Short-term value: 984 mg/m <sup>3</sup> , 400 ppm<br>Long-term value: 492 mg/m <sup>3</sup> , 200 ppm<br>BEI |

### 67-56-1 methanol

|     |  |
|-----|--|
| PEL | Long-term value: 260 mg/m <sup>3</sup> , 200 ppm   |
| REL | Short-term value: 325 mg/m <sup>3</sup> , 250 ppm<br>Long-term value: 260 mg/m <sup>3</sup> , 200 ppm<br>Skin      |
| TLV | Short-term value: 328 mg/m <sup>3</sup> , 250 ppm<br>Long-term value: 262 mg/m <sup>3</sup> , 200 ppm<br>Skin; BEI |

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**· Ingredients with biological limit values:**

**67-63-0 propan-2-ol**

BEI 40 mg/L  
 Medium: urine  
 Time: end of shift at end of workweek  
 Parameter: Acetone (background, nonspecific)

**67-56-1 methanol**

BEI 15 mg/L  
 Medium: urine  
 Time: end of shift  
 Parameter: Methanol (background, nonspecific)

**· Additional information:** The lists that were valid during the creation were used as basis.

**· Exposure controls**

**· Personal protective equipment:**

**· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands before breaks and at the end of work.  
 Avoid contact with the skin.  
 Avoid contact with the eyes and skin.

**· Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**· Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**· Material of gloves**

Neoprene gloves  
 Nitrile rubber, NBR  
 Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**· Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Not suitable are gloves made of the following materials:**

Strong gloves  
 Leather gloves

**· Eye protection:**



Tightly sealed goggles

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- **Body protection:**
- Apron
- Solvent resistant protective clothing

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

|                         |                 |
|-------------------------|-----------------|
| <b>Form:</b>            | Liquid          |
| <b>Color:</b>           | Clear           |
| <b>Odor:</b>            | Hydrocarbon     |
| <b>Odour threshold:</b> | Not determined. |

- **pH-value:** Not determined.

- **Change in condition**

|                                     |                |
|-------------------------------------|----------------|
| <b>Melting point/Melting range:</b> | Undetermined.  |
| <b>Boiling point/Boiling range:</b> | 82 °C (180 °F) |

- **Flash point:** -1 °C (30 °F)

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

- **Ignition temperature:** 215 °C (419 °F)

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**

|               |            |
|---------------|------------|
| <b>Lower:</b> | 1.1 Vol %  |
| <b>Upper:</b> | 12.0 Vol % |

- **Vapor pressure at 20 °C (68 °F):** 48 hPa (36 mm Hg)

- **Density at 20 °C (68 °F):** 0.687 g/cm<sup>3</sup> (5.733 lbs/gal)

- **Relative density** Not determined.

- **Vapour density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with**

**Water:** Fully miscible.

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

|                   |                 |
|-------------------|-----------------|
| <b>Dynamic:</b>   | Not determined. |
| <b>Kinematic:</b> | Not determined. |

- **Solvent content:**

|                          |                        |
|--------------------------|------------------------|
| <b>Organic solvents:</b> | 99.9 %                 |
| <b>Water:</b>            | 0.1 %                  |
| <b>VOC content:</b>      | 99.9 %                 |
|                          | 686.2 g/l / 5.73 lb/gl |

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· **Other information** *No further relevant information available.*

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **Possibility of hazardous reactions** *Reacts with oxidizing agents.*
- **Conditions to avoid** *No further relevant information available.*
- **Incompatible materials:** *No further relevant information available.*
- **Hazardous decomposition products:**
  - Formaldehyde*
  - Carbon monoxide and carbon dioxide*

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**67-56-1 methanol**

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | 5628 mg/kg (rat)     |
| Dermal | LD50 | 15800 mg/kg (rabbit) |

- **Primary irritant effect:**
  - **on the skin:** *Irritant to skin and mucous membranes.*
  - **on the eye:** *Irritating effect.*
- **Sensitization:** *No sensitizing effects known.*
- **Additional toxicological information:**

*The product shows the following dangers according to internally approved calculation methods for preparations:*

*Harmful*

*Irritant*

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

67-63-0 | *propan-2-ol*

3

· **NTP (National Toxicology Program)**

*None of the ingredients is listed.*

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** *No further relevant information available.*
- **Persistence and degradability** *No further relevant information available.*
- **Behavior in environmental systems:**
  - **Bioaccumulative potential** *No further relevant information available.*
  - **Mobility in soil** *No further relevant information available.*
- **Ecotoxicological effects:**
- **Remark:** *Very toxic for fish*

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- **Additional ecological information:**
- **General notes:**  
*Water hazard class 2 (Self-assessment): hazardous for water  
 Do not allow product to reach ground water, water course or sewage system.  
 Danger to drinking water if even small quantities leak into the ground.  
 Also poisonous for fish and plankton in water bodies.  
 Very toxic for aquatic organisms*
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- |                                     |   |
|-------------------------------------|---|
| <b>· UN-Number</b>                  | UN1992  |
| <b>· DOT, IMDG, IATA</b>            |   |
| <b>· UN proper shipping name</b>    | Flammable liquids, toxic, n.o.s. (Heptanes, Methanol)                               |
| <b>· DOT</b>                        | FLAMMABLE LIQUID, TOXIC, N.O.S. (HEPTANES, METHANOL), MARINE POLLUTANT              |
| <b>· IMDG</b>                       | FLAMMABLE LIQUID, TOXIC, N.O.S. (HEPTANES, METHANOL)                                |
| <b>· IATA</b>                       | FLAMMABLE LIQUID, TOXIC, N.O.S. (HEPTANES, METHANOL)                                |
| <b>· Transport hazard class(es)</b> |   |
| <b>· DOT</b>                        |   |
|                                     |  |
| <b>· Class</b>                      | 3 Flammable liquids.  |
| <b>· Label</b>                      | 3+6.1   |
| <b>· IMDG</b>                       |   |
|                                     |  |
| <b>· Class</b>                      | 3 Flammable liquids.  |

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|   |   |
|---|---|
| · <b>Label</b>  | 3+6.1   |
| · <b>IATA</b>   |   |
|  |                      |
| · <b>Class</b>  | 3 Flammable liquids.  |
| · <b>Label</b>  | 3+6.1   |
| · <b>Packing group</b>  | II  |
| · <b>DOT, IMDG, IATA</b>  | II  |
| · <b>Environmental hazards:</b>   | Product contains environmentally hazardous substances: heptane  |
| · <b>Marine pollutant:</b>  | Yes<br>Symbol (fish and tree)   |
| · <b>Special precautions for user</b>   | Warning: Flammable liquids  |
| · <b>Danger code (Kemler):</b>  | 336   |
| · <b>EMS Number:</b>  | F-E,S-D   |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>  | Not applicable.   |
| · <b>UN "Model Regulation":</b>   | UN1992, Flammable liquids, toxic, n.o.s. (Heptanes, Methanol), ENVIRONMENTALLY HAZARDOUS, 3 (6.1), II |

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

### · Section 313 (Specific toxic chemical listings):

67-63-0 | propan-2-ol

67-56-1 | methanol

### · TSCA (Toxic Substances Control Act):

All ingredients are listed.

### · Proposition 65

#### · Chemicals known to cause cancer:

None of the ingredients is listed.

#### · Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

#### · Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

#### · Chemicals known to cause developmental toxicity:

67-56-1 | methanol

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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

|                  |   |
|------------------|---|
| 142-82-5 heptane | D |
|------------------|---|

· **TLV (Threshold Limit Value established by ACGIH)**

|                     |    |
|---------------------|----|
| 67-63-0 propan-2-ol | A4 |
|---------------------|----|

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02

GHS07

GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

heptane

methanol

· **Hazard statements**

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause damage to organs. May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

· **Precautionary statements**

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

Keep out of reach of children.

Read label before use.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Store locked up.

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

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** Environment protection department.

· **Date of preparation / last revision** 02/18/2014

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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*IATA: International Air Transport Association*  
*ACGIH: American Conference of Governmental Industrial Hygienists*  
*EINECS: European Inventory of Existing Commercial Chemical Substances*  
*ELINCS: European List of Notified Chemical Substances*  
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*  
*NFPA: National Fire Protection Association (USA)*  
*HMIS: Hazardous Materials Identification System (USA)*  
*VOC: Volatile Organic Compounds (USA, EU)*  
*LC50: Lethal concentration, 50 percent*  
*LD50: Lethal dose, 50 percent*

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