1. Identification

Product identifier: Brakleen® Brake Parts Cleaner - 5 gal

Other means of identification:
- Product Code: No. 05086 (Item# 1003701)

Recommended use: Brake cleaner

Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information
- Manufactured or sold by:
  - Company name: CRC Industries, Inc.
  - Address: 885 Louis Dr., Warminster, PA 18974 US
  - Telephone: 800-556-5074
  - 24-Hour Emergency (CHEMTREC): 800-424-9300 (US)
  - Website: crcindustries.com

2. Hazard(s) identification

Physical hazards:
- Flammable liquids: Category 2

Health hazards:
- Acute toxicity, oral: Category 3
- Skin corrosion/irritation: Category 2
- Serious eye damage/eye irritation: Category 2A
- Reproductive toxicity: Category 1A
- Specific target organ toxicity, single exposure: Category 1 (central nervous system, eyes)
- Specific target organ toxicity, single exposure: Category 3 narcotic effects
- Specific target organ toxicity, repeated exposure: Category 2
- Aspiration hazard: Category 1

Environmental hazards:
- Hazardous to the aquatic environment, acute hazard: Category 2
- Hazardous to the aquatic environment, long-term hazard: Category 2

OSHA defined hazards:
- Not classified.

Label elements

Signal word: Danger

Hazard statement:
Highly flammable liquid and vapor. Toxic if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May damage fertility or the unborn child. Causes damage to organs (central nervous system, eyes). May cause damage to organs through prolonged or repeated exposure.
Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Maintain ventilation during use and until all vapors are gone. Do not breathe mist/vapors. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. In case of fire: Do not use water jet as an extinguisher, as this will spread the fire.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep cool.

Disposal

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

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone</td>
<td></td>
<td>67-64-1</td>
<td>50 - 60</td>
</tr>
<tr>
<td>methanol</td>
<td></td>
<td>67-56-1</td>
<td>10 - 20</td>
</tr>
<tr>
<td>naphtha (petroleum), hydrotreated light</td>
<td></td>
<td>64742-49-0</td>
<td>10 - 20</td>
</tr>
<tr>
<td>toluene</td>
<td></td>
<td>108-88-3</td>
<td>5 - 10</td>
</tr>
<tr>
<td>heptane, branched, cyclic and linear</td>
<td></td>
<td>426260-76-6</td>
<td>3 - 5</td>
</tr>
<tr>
<td>n-heptane</td>
<td></td>
<td>142-82-5</td>
<td>3 - 5</td>
</tr>
</tbody>
</table>

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms/effects, acute and delayed


Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. 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. Wash contaminated clothing before reuse.
5. Fire-fighting measures

Suitable extinguishing media
Water fog. Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions
In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
Highly flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions
Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapors. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.
Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

<table>
<thead>
<tr>
<th>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)</th>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone (CAS 67-64-1)</td>
<td>PEL</td>
<td></td>
<td>2400 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
<tr>
<td>methanol (CAS 67-56-1)</td>
<td>PEL</td>
<td></td>
<td>260 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>200 ppm</td>
</tr>
<tr>
<td>naphtha (petroleum), hydrotreated light (CAS 64742-49-0)</td>
<td>PEL</td>
<td></td>
<td>400 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>100 ppm</td>
</tr>
<tr>
<td>n-heptane (CAS 142-82-5)</td>
<td>PEL</td>
<td></td>
<td>2000 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>500 ppm</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>US. OSHA Table Z-2 (29 CFR 1910.1000)</th>
<th>Components</th>
<th>Type</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>toluene (CAS 108-88-3)</td>
<td>Ceiling</td>
<td></td>
<td>300 ppm</td>
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<tr>
<td></td>
<td>TWA</td>
<td></td>
<td>200 ppm</td>
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</table>

<table>
<thead>
<tr>
<th>US. ACGIH Threshold Limit Values</th>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone (CAS 67-64-1)</td>
<td>STEL</td>
<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td></td>
<td>250 ppm</td>
</tr>
<tr>
<td>methanol (CAS 67-56-1)</td>
<td>STEL</td>
<td></td>
<td>250 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td></td>
<td>200 ppm</td>
</tr>
<tr>
<td>n-heptane (CAS 142-82-5)</td>
<td>STEL</td>
<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td></td>
<td>400 ppm</td>
</tr>
<tr>
<td>toluene (CAS 108-88-3)</td>
<td>TWA</td>
<td></td>
<td>20 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. NIOSH: Pocket Guide to Chemical Hazards</th>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone (CAS 67-64-1)</td>
<td>TWA</td>
<td></td>
<td>590 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>250 ppm</td>
</tr>
<tr>
<td>methanol (CAS 67-56-1)</td>
<td>STEL</td>
<td></td>
<td>325 mg/m³</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>250 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td></td>
<td>260 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>200 ppm</td>
</tr>
<tr>
<td>naphtha (petroleum), hydrotreated light (CAS 64742-49-0)</td>
<td>TWA</td>
<td></td>
<td>400 mg/m³</td>
</tr>
<tr>
<td>n-heptane (CAS 142-82-5)</td>
<td>Ceiling</td>
<td></td>
<td>1800 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>440 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td></td>
<td>350 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>85 ppm</td>
</tr>
</tbody>
</table>
US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Value Components</th>
<th>Type</th>
<th>Value</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>toluene (CAS 108-88-3)</td>
<td>STEL</td>
<td>560 mg/m³</td>
<td>150 ppm</td>
</tr>
<tr>
<td>toluene (CAS 108-88-3)</td>
<td>TWA</td>
<td>375 mg/m³</td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

**Biological limit values**

<table>
<thead>
<tr>
<th>ACGIH Biological Exposure Indices</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone (CAS 67-64-1)</td>
<td>25 mg/l</td>
<td>Acetone</td>
<td>Urine</td>
<td>*</td>
</tr>
<tr>
<td>methanol (CAS 67-56-1)</td>
<td>15 mg/l</td>
<td>Methanol</td>
<td>Urine</td>
<td>*</td>
</tr>
<tr>
<td>toluene (CAS 108-88-3)</td>
<td>0.3 mg/g</td>
<td>o-Cresol, with hydrolysis</td>
<td>Creatinine in urine</td>
<td>*</td>
</tr>
<tr>
<td>toluene (CAS 108-88-3)</td>
<td>0.03 mg/l</td>
<td>Toluene</td>
<td>Urine</td>
<td>*</td>
</tr>
<tr>
<td>toluene (CAS 108-88-3)</td>
<td>0.02 mg/l</td>
<td>Toluene</td>
<td>Blood</td>
<td>*</td>
</tr>
</tbody>
</table>

* - For sampling details, please see the source document.

**Exposure guidelines**

**US - California OELs: Skin designation**
- methanol (CAS 67-56-1) Can be absorbed through the skin.
- toluene (CAS 108-88-3) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**
- methanol (CAS 67-56-1) Skin designation applies.
- toluene (CAS 108-88-3) Skin designation applies.

**US - Tennessee OELs: Skin designation**
- methanol (CAS 67-56-1) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**
- methanol (CAS 67-56-1) Danger of cutaneous absorption

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**
- methanol (CAS 67-56-1) Can be absorbed through the skin.

**Appropriate engineering controls**
- Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**
- Wear safety glasses with side shields (or goggles).

**Skin protection**
- Wear protective gloves such as: Nitrile. Neoprene. Polyvinyl alcohol (PVA).

**Hand protection**
- Wear appropriate chemical resistant clothing.

**Respiratory protection**
- If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

**Thermal hazards**
- Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**
- Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties**

**Appearance**
- **Physical state**: Liquid.
- **Form**: Liquid.
- **Color**: Clear.
- **Odor**: Solvent.
Odor threshold: Not available.

pH: Not available.

Melting point/freezing point: -144 °F (-97.8 °C) estimated

Initial boiling point and boiling range: 132.8 °F (56 °C) estimated

Flash point: -0.0009 °F (-17.8 °C) estimated

Evaporation rate: Fast.

Flammability (solid, gas): Not available.

Upper/lower flammability or explosive limits:
- Explosive limit - lower (%): 1 % estimated
- Explosive limit - upper (%): 36.5 % estimated

Vapor pressure: 228.1 hPa estimated

Vapor density: > 1 (air = 1)

Relative density: 0.78

Solubility(ies):
- Solubility (water): Slightly soluble.

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

Auto-ignition temperature: 433 °F (222.8 °C) estimated

Decomposition temperature: Not available.

Viscosity: Not available.

Percent volatile: 100 % estimated

10. Stability and reactivity

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.

Incompatible materials: Acids. Strong oxidizing agents.


11. Toxicological information

Information on likely routes of exposure:

- Inhalation: May cause damage to organs by inhalation. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

- Skin contact: Causes skin irritation.

- Eye contact: Causes serious eye irritation.

- Ingestion: Toxic if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics:


Information on toxicological effects:

- Acute toxicity: May be fatal if swallowed and enters airways.

- Skin corrosion/irritation: Causes skin irritation.

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

Respiratory or skin sensitization:

- Respiratory sensitization: Not a respiratory sensitizer.

- Skin sensitization: This product is not expected to cause skin sensitization.
Germ cell mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity
Not classifiable as to carcinogenicity to humans.

**IARC Monographs. Overall Evaluation of Carcinogenicity**
toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.

Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens**
Not listed.

Reproductive toxicity
May damage fertility or the unborn child.

Specific target organ toxicity - single exposure
Causes damage to organs (central nervous system, eyes). May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard
May be fatal if swallowed and enters airways.

Chronic effects
Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure.

**12. Ecological information**

Ecotoxicity
Toxic to aquatic life with long lasting effects.

Persistence and degradability
No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential
No data available.

Partition coefficient n-octanol / water (log Kow)
- acetone: -0.24
- methanol: -0.77
- n-heptane: 4.66
- toluene: 2.73

Bioconcentration factor (BCF)
- naphtha (petroleum), hydrotreated light: 10 - 2500
- toluene: 90

Mobility in soil
No data available.

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

**13. Disposal considerations**

Disposal instructions
This material and its container must be disposed of as hazardous waste. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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 contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code
Possible RCRA waste code includes:
- D001: Waste Flammable material with a flash point <140 F
- F003: Waste Non-halogenated Solvent - Spent Non-halogenated Solvent

However, it is the generator's responsibility to determine the proper classification and disposal method at the time of disposal.

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. Transport information**

DOT
- UN number: UN1992
- UN proper shipping name: Flammable liquids, toxic, n.o.s. (acetone RQ = 9091 LBS, heptanes), MARINE POLLUTANT (heptanes)
- Transport hazard class(es)
  - Class: 3
  - Subsidiary risk: 6.1
  - Label(s): 3, 6.1
<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packaging group</td>
<td>II</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td></td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>Yes</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
</tr>
<tr>
<td>Special provisions</td>
<td>IB2, T7, TP2, TP13</td>
</tr>
<tr>
<td>Packaging exceptions</td>
<td>150</td>
</tr>
<tr>
<td>Packaging non bulk</td>
<td>202</td>
</tr>
<tr>
<td>Packaging bulk</td>
<td>243</td>
</tr>
<tr>
<td>Other information</td>
<td></td>
</tr>
<tr>
<td>Passenger and cargo aircraft</td>
<td>Allowed with restrictions.</td>
</tr>
<tr>
<td>Cargo aircraft only</td>
<td>Allowed with restrictions.</td>
</tr>
</tbody>
</table>

**IATA**

<table>
<thead>
<tr>
<th>Property</th>
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</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>UN1992</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>Flammable liquid, toxic, n.o.s. (acetone, heptanes)</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td></td>
</tr>
<tr>
<td>Class</td>
<td>3</td>
</tr>
<tr>
<td>Subsidiary risk</td>
<td>6.1</td>
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<td>Packing group</td>
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<td>Special precautions for user</td>
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<td>Other information</td>
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**IMDG**

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<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>UN1992</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>FLAMMABLE LIQUID, TOXIC, N.O.S. (acetone, heptanes), MARINE POLLUTANT (heptanes)</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td></td>
</tr>
<tr>
<td>Class</td>
<td>3</td>
</tr>
<tr>
<td>Subsidiary risk</td>
<td>6.1</td>
</tr>
<tr>
<td>Packing group</td>
<td>II</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td></td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>Yes</td>
</tr>
<tr>
<td>EmS</td>
<td>F-E, S-D</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
</tr>
</tbody>
</table>

**DOT**

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material name</td>
<td>Brakleen® Brake Parts Cleaner - 5 gal</td>
</tr>
<tr>
<td>Version #</td>
<td>05</td>
</tr>
<tr>
<td>Revision date</td>
<td>06-16-2023</td>
</tr>
<tr>
<td>Issue date</td>
<td>01-01-2020</td>
</tr>
<tr>
<td>SDS US</td>
<td></td>
</tr>
</tbody>
</table>
15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA 304 Emergency release notification
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)
acetone (CAS 67-64-1)
methanol (CAS 67-56-1)
toluene (CAS 108-88-3)

CERCLA Hazardous Substances: Reportable quantity
acetone (CAS 67-64-1) 5000 LBS
methanol (CAS 67-56-1) 5000 LBS
toluene (CAS 108-88-3) 1000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
methanol (CAS 67-56-1)
toluene (CAS 108-88-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Contains component(s) regulated under the Safe Drinking Water Act.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
acetone (CAS 67-64-1) 6532
toluene (CAS 108-88-3) 6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
acetone (CAS 67-64-1) 35 %WV
toluene (CAS 108-88-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number
acetone (CAS 67-64-1) 6532
toluene (CAS 108-88-3) 594

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace
acetone (CAS 67-64-1) Low priority

Food and Drug Administration (FDA)
Not regulated.
Superfund Amendments and Reauthorization Act of 1986 (SARA)

Classified hazard categories
- Flammable (gases, aerosols, liquids, or solids)
- Acute toxicity (any route of exposure)
- Skin corrosion or irritation
- Serious eye damage or eye irritation
- Reproductive toxicity
- Specific target organ toxicity (single or repeated exposure)
- Aspiration hazard
- Hazard not otherwise classified (HNOC)

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
Yes

SARA 313 (TRI reporting)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>methanol</td>
<td>67-56-1</td>
<td>10 - 20</td>
</tr>
<tr>
<td>toluene</td>
<td>108-88-3</td>
<td>5 - 10</td>
</tr>
</tbody>
</table>

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
- acetone (CAS 67-64-1)
- methanol (CAS 67-56-1)
- naphtha (petroleum), hydrotreated light (CAS 64742-49-0)
- n-heptane (CAS 142-82-5)
- toluene (CAS 108-88-3)

US. New Jersey Worker and Community Right-to-Know Act
- acetone (CAS 67-64-1)
- methanol (CAS 67-56-1)
- naphtha (petroleum), hydrotreated light (CAS 64742-49-0)
- n-heptane (CAS 142-82-5)
- toluene (CAS 108-88-3)

US. Massachusetts RTK - Substance List
- acetone (CAS 67-64-1)
- methanol (CAS 67-56-1)
- naphtha (petroleum), hydrotreated light (CAS 64742-49-0)
- n-heptane (CAS 142-82-5)
- toluene (CAS 108-88-3)

US. Pennsylvania Worker and Community Right-to-Know Law
- acetone (CAS 67-64-1)
- methanol (CAS 67-56-1)
- naphtha (petroleum), hydrotreated light (CAS 64742-49-0)
- n-heptane (CAS 142-82-5)
- toluene (CAS 108-88-3)

US. Rhode Island RTK
- acetone (CAS 67-64-1)
- methanol (CAS 67-56-1)
- naphtha (petroleum), hydrotreated light (CAS 64742-49-0)
- n-heptane (CAS 142-82-5)
- toluene (CAS 108-88-3)

California Proposition 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

California Proposition 65 - CRT: Listed date/Carcinogenic substance
- acetaldehyde (CAS 75-07-0) Listed: April 1, 1988
- benzene (CAS 71-43-2) Listed: February 27, 1987
- cumene (CAS 99-82-8) Listed: April 6, 2010
- ethylbenzene (CAS 100-41-4) Listed: June 11, 2004
- naphthalene (CAS 91-20-3) Listed: April 19, 2002

California Proposition 65 - CRT: Listed date/Developmental toxin
- benzene (CAS 71-43-2) Listed: December 26, 1997
Volatile organic compounds (VOC) regulations

EPA
VOC content (40 CFR 51.100(s))
45%

Consumer products (40 CFR 59, Subpt. C)
Not regulated

State
Consumer products
This product is regulated as a Brake Cleaner. This product is not compliant to be sold for use in California, Colorado, Connecticut, Delaware, Maryland, Michigan, New Hampshire, New York, Ohio, Rhode Island, and the following counties in Utah: Box Elder, Cache, Davis, Salt Lake, Tooele, Utah, and Weber. This product is compliant in all other states.

VOC content (CA)
45%

VOC content (OTC)
45%

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Industrial Chemicals (AICIS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>No</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Taiwan Chemical Substance Inventory (TCSI)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 01-01-2020
Revision date 06-16-2023
Prepared by Allison Yoon
Version # 05
Further information CRC # 991A/1002987

Disclaimer
The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries, Inc..

Revision information
Physical & Chemical Properties: Multiple Properties
Toxicological Information: Toxicological Data
Ecological Information: Ecotoxicity
Regulatory information: Consumer products