

SAFETY DATA SHEET

BRAKE & PARTS CLEANER

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Revision: 05/01/2019

Supersedes Revision: 05/22/2015

1. Product and Company Identification

Product Code: 108R05012019
Product Name: BRAKE & PARTS CLEANER
Company Name: TWIN-CHEM INC.
6175 Hickory Flat Highway
Suite 110-344
Canton, GA 30115
Phone Number: (800)442-4958
Web site address: www.twinchemicals.com
Email address: sales@twinchemicals.com
Emergency Contact: CERTS (Human & Environment only) (800)552-3787
Information: Sales and Information (800)442-4958

2. Hazards Identification

Flammable Liquids, Category 2

Skin Corrosion/Irritation, Category 2

Toxic To Reproduction, Category 2

Specific Target Organ Toxicity (single exposure), Category 3

Specific Target Organ Toxicity (repeated exposure), Category 2

Aspiration Toxicity, Category 1

Aquatic Toxicity (Acute), Category 1

Aquatic Toxicity (Chronic), Category 1



GHS Signal Word: Danger

GHS Hazard Phrases: H225 - Highly flammable liquid and vapor.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H361 - Suspected of damaging fertility or the unborn child .
H373 - May cause damage to through prolonged or repeated exposure.
H410 - Very toxic to aquatic life with long lasting effects.

GHS Precautionary Phrases: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 - Keep container tightly closed.
P241 - Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P281 - Use personal protective equipment as required.
P235 - Keep cool.

GHS Response Phrases: P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+352 - IF ON SKIN: Wash with plenty of soap and water.
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

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P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308+313 - IF exposed or concerned: Get medical attention/advice.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P314 - Get medical attention/advice if you feel unwell.

P321 - Specific treatment see appropriate section on the label.

P331 - Do NOT induce vomiting.

P332+313 - If skin irritation occurs, get medical advice/attention.

P362 - Take off contaminated clothing and wash before re-use.

P391 - Collect spillage.

GHS Storage and Disposal Phrases:

P403+233 - Store container tightly closed in well-ventilated place.

P501 - Dispose of contents/container in accordance with all national, state and local regulations.

Potential Health Effects (Acute and Chronic):

Hazards not otherwise classified (HNOC) or not covered by GHS.

3. Composition/Information on Ingredients

| CAS # | Hazardous Components (Chemical Name) | Concentration |
|----------|--------------------------------------|---------------|
| 142-82-5 | Heptane {n-Heptane} | 70.0 % |
| 108-88-3 | Toluene {Benzene, Methyl-; Toluol} | 30.0 % |

4. First Aid Measures

Emergency and First Aid Procedures:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

In Case of Inhalation:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In Case of Skin Contact:

Wash off with soap and plenty of water. Consult a physician.

In Case of Eye Contact:

Flush eyes with water as a precaution.

In Case of Ingestion:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Signs and Symptoms Of Exposure:

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

5. Fire Fighting Measures

Flash Pt: ~ -4.00 C Method Used: Closed Cup

Explosive Limits: LEL: Upper ex UEL: Lower ex

Autoignition Pt: 223.00 C

Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

Fire Fighting Instructions:

Wear self contained breathing apparatus for fire fighting if necessary. Further information.

Flammable Properties and Hazards:

Carbon oxides.

Hazardous Combustion Products:

No data available.

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6. Accidental Release Measures

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| Protective Precautions, Protective Equipment and Emergency Procedures: | Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8. |
| Environmental Precautions: | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. |
| Steps To Be Taken In Case Material Is Released Or Spilled: | Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). |

7. Handling and Storage

| | |
|---|--|
| Precautions To Be Taken in Handling: | Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2. |
| Precautions To Be Taken in Storing: | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: 2 - 8 deg.C. |

8. Exposure Controls/Personal Protection

| CAS # | Partial Chemical Name | OSHA TWA | ACGIH TWA | Other Limits |
|----------|------------------------------------|--|-------------------------------|--------------|
| 142-82-5 | Heptane {n-Heptane} | PEL: 500 ppm | TLV: 400 ppm STEL: 500 ppm | No data. |
| 108-88-3 | Toluene {Benzene, Methyl-, Toluol} | PEL: 200 ppm STEL: 500 ppm/(10min) CEIL: 300 ppm | TLV: 20 ppm | No data. |

| CAS # | Chemical Name | Jurisdiction | Recommended Exposure Limits | Notations |
|----------|------------------------------------|--------------|---|-----------|
| 142-82-5 | Heptane {n-Heptane} | NIOSH | TWA: 350 mg/m3 (85 ppm) STEL: 1800 mg/m3 (440 ppm) (15m) | |
| 108-88-3 | Toluene {Benzene, Methyl-, Toluol} | NIOSH | TWA: 375 mg/m3 (100 ppm) STEL: 560 mg/m3 (150 ppm) | |

Personal Protective Equipment Symbols:

| | |
|---|--|
| Respiratory Equipment (Specify Type): | Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| Eye Protection: | Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). |
| Protective Gloves: | Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. |
| Other Protective Clothing: | Complete suit protecting against chemicals. Flame retardant antistatic protective clothing. |
| Engineering Controls (Ventilation etc.): | No data available. |

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Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Environmental Exposure Controls: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: clear, water white liquid.
solvent odor.

pH: pH no data available

Freezing Point: NE - 132.00 C

Boiling Point: 98.00 C - 99.00 C

Flash Pt: ~ -4.00 C Method Used: Closed Cup

Evaporation Rate: NA

Flammability (solid, gas): No data available.

Explosive Limits: LEL: Upper ex UEL: Lower ex

Vapor Pressure (vs. Air or mm Hg): NA

Vapor Density (vs. Air = 1): NA

Specific Gravity (Water = 1): 0.72 - 0.73 at 25.0 C

Solubility in Water: Insoluble

Octanol/Water Partition Coefficient: NA

Percent Volatile: 100.0 % by weight.

Autoignition Pt: 223.00 C

Decomposition Temperature: NE

Viscosity: NA

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability: Heat, flames and sparks. Extremes of temperature and direct sunlight.

Incompatibility - Materials To Avoid: Strong oxidizing agents.

Hazardous Decomposition or Byproducts: Other decomposition products: No data available. In the event of fire: see section 5.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Reactions: Vapors may form explosive mixture with air.

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11. Toxicological Information

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| Toxicological Information: | Germ cell mutagenicity. No data available. Reproductive toxicity. Aspiration hazard: |
| Irritation or Corrosion: | Skin corrosion/irritation. No data available. Serious eye damage/eye irritation: |
| Sensitization: | No data available. |
| Chronic Toxicological Effects: | Specific target organ toxicity - single exposure: No data available. Specific target organ toxicity - repeated exposure: |
| Carcinogenicity/Other Information: | IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. |

| CAS # | Hazardous Components (Chemical Name) | NTP | IARC | ACGIH | OSHA |
|----------|--------------------------------------|------|------|-------|------|
| 142-82-5 | Heptane {n-Heptane} | n.a. | n.a. | n.a. | n.a. |
| 108-88-3 | Toluene {Benzene, Methyl-; Toluol} | n.a. | 3 | A4 | n.a. |

12. Ecological Information

| | |
|--|---|
| | No data available. |
| Results of PBT and vPvB assessment: | PBT/vPvB assessment not available as chemical safety assessment not required/not conducted. |

13. Disposal Considerations

| | |
|-------------------------------|---|
| Waste Disposal Method: | Product. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Contaminated packaging. |
|-------------------------------|---|

14. Transport Information

LAND TRANSPORT (US DOT):

| | | | |
|----------------------------------|---|-----------------------|---|
| DOT Proper Shipping Name: | Flammable liquids, n.o.s. Heptane & Toluene | | |
| DOT Hazard Class: | 3 | FLAMMABLE LIQUID | |
| UN/NA Number: | UN1993 | Packing Group: | I |



AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Heptanes.

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15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

| CAS # | Hazardous Components (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) |
|----------|--------------------------------------|--------------|-------------|--------------|
| 142-82-5 | Heptane {n-Heptane} | No | No | No |
| 108-88-3 | Toluene {Benzene, Methyl-; Toluol} | No | Yes 1000 LB | Yes |

CAS # Hazardous Components (Chemical Name)

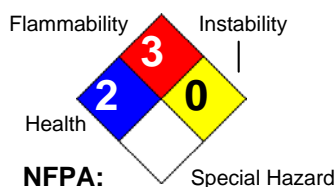
Other US EPA or State Lists

| | | |
|----------|------------------------------------|--|
| 142-82-5 | Heptane {n-Heptane} | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 4 Test, 8A PAIR; CA PROP.65: No; CA TAC, Title 8: Title 8 |
| 108-88-3 | Toluene {Benzene, Methyl-; Toluol} | CAA HAP,ODC: HAP: VHAP; CWA NPDES: Yes; TSCA: Yes - Inventory, 8A CAIR; CA PROP.65: Yes: RDTox(F); CA TAC, Title 8: TAC: Cat. IIa, Title 8 |

16. Other Information

Revision Date: 05/01/2019**Hazard Rating System:**

| | | |
|--------------|---|---|
| HEALTH | * | 2 |
| FLAMMABILITY | | 3 |
| PHYSICAL | | 0 |
| PPE | | |

HMIS:**Additional Information About** No data available.**This Product:****Company Policy or****Disclaimer:**

THE INFORMATION CONTAINED HEREIN is based upon available information at the time of preparation and is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that the information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or any other user proximately caused by the material if misused or if reasonable safety procedures are not adhered to as stipulated in the data sheet and on the product label. Furthermore, vendor assumes no responsibility for injury or damage caused by abnormal use of this material even if reasonable safety measures are followed.