

1. Product and Company Identification

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

2. Hazards Identification

Flammable Liquids, Category 2
Skin Corrosion/Irritation, Category 2
Specific Target Organ Toxicity (single exposure), Category 3
Aspiration Toxicity, Category 1
Aquatic Toxicity (Acute), Category 1
Aquatic Toxicity (Chronic), Category 1



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|--------------------------------|---|
| 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. H400 - Very toxic to aquatic life. H410 - Very toxic to aquatic life with long lasting effects. |
| GHS Precaution Phrases: | 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. P261 - Avoid breathing 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. 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. P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 - Call a POISON CENTER or doctor/physician if you feel unwell. 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 to licensed facility for incineration.

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} | 100.0 % |

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.

6. Accidental Release Measures

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 | |

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| 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.): | |
| 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: | <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid |
| Appearance and Odor: | clear, water white liquid. solvent odor. |
| pH: | pH no data available |
| Freezing Point: | -91.00 C - 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): | |
| Explosive Limits: | LEL: Upper ex UEL: Lower ex |
| Vapor Pressure (vs. Air or mm Hg): | 53 HPA at 20.0 C |
| Vapor Density (vs. Air = 1): | NA |
| Specific Gravity (Water = 1): | |
| Density: | 0.680 G/CM3 |
| Solubility in Water: | Insoluble |

Octanol/Water Partition Coefficient: NA
Percent Volatile:
Autoignition Pt: 223.00 C
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.

11. Toxicological Information

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. |

12. Ecological Information

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

SAFETY DATA SHEET

BRAKE & PARTS CLEANER

LAND TRANSPORT (US DOT):**DOT Proper Shipping Name:** Flammable liquids, n.o.s. (Heptane)**DOT Hazard Class:** 3 FLAMMABLE LIQUID**UN/NA Number:** UN1993**Packing Group:** II**AIR TRANSPORT (ICAO/IATA):****ICAO/IATA Shipping Name:** Heptanes.

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 |

CAS # Hazardous Components (Chemical Name)

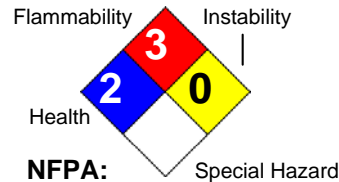
142-82-5 Heptane {n-Heptane}

Other US EPA or State ListsCAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -
Inventory, 4 Test, 8A PAIR; CA PROP.65: No

16. Other Information

Revision Date: 05/22/2015**Hazard Rating System:**

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

HMIS:**Additional Information About****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.