



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** NAPA® Non-Chlorinated Brakleen® Brake Parts Cleaner

**Other means of identification**

**Product code** 091847

**Recommended use** Brake parts 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**

**General Information** 215-674-4300

**Technical Assistance** 800-521-3168

**Customer Service** 800-272-4620

**24-Hour Emergency (CHEMTREC)** 800-424-9300 (US)

703-527-3887 (International)

**Website** www.crcindustries.com

## 2. Hazard(s) identification

|                              |                                                        |                             |
|------------------------------|--------------------------------------------------------|-----------------------------|
| <b>Physical hazards</b>      | Flammable aerosols                                     | Category 1                  |
|                              | Gases under pressure                                   | Compressed gas              |
| <b>Health hazards</b>        | Skin corrosion/irritation                              | Category 2                  |
|                              | Reproductive toxicity (fertility)                      | Category 2                  |
|                              | Specific target organ toxicity, single exposure        | Category 3 narcotic effects |
|                              | Specific target organ toxicity, repeated exposure      | Category 2                  |
|                              | Aspiration hazard                                      | Category 1                  |
| <b>Environmental hazards</b> | Hazardous to the aquatic environment, acute hazard     | Category 1                  |
|                              | Hazardous to the aquatic environment, long-term hazard | Category 1                  |
| <b>OSHA defined hazards</b>  | Not classified.                                        |                             |

**Label elements**



**Signal word**

Danger

**Hazard statement**

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging fertility. May cause damage to organs (central nervous system, kidneys, lungs, skin) through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

## 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. Do not spray on an open flame or other ignition source. Do not apply while equipment is energized. Pressurized container: Do not pierce or burn, even after use. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. 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. Do not breathe gas. Do not breathe mist or vapor. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

### Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If exposed or concerned: Get medical attention. Collect spillage.

### Storage

Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.

### Disposal

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

## 3. Composition/information on ingredients

### Mixtures

| Chemical name                           | Common name and synonyms | CAS number | %       |
|-----------------------------------------|--------------------------|------------|---------|
| 3-Methylhexane                          |                          | 589-34-4   | 20 - 30 |
| n-Heptane                               |                          | 142-82-5   | 20 - 30 |
| Methylcyclohexane                       |                          | 108-87-2   | 10 - 20 |
| Naphtha (petroleum), hydrotreated light |                          | 64742-49-0 | 10 - 20 |
| Cyclohexane                             |                          | 110-82-7   | 5 - 10  |
| Isopropyl alcohol                       |                          | 67-63-0    | 5 - 10  |
| Carbon dioxide                          |                          | 124-38-9   | 3 - 5   |
| n-Hexane                                |                          | 110-54-3   | < 1     |
| n-Octane                                |                          | 111-65-9   | < 0.2   |

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. Provide oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician if you feel unwell.

### Skin contact

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

### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. 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. Aspiration may cause pulmonary edema and pneumonitis.

### Most important symptoms/effects, acute and delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes and mucous membranes. Aspiration may cause pulmonary edema and pneumonitis. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

### Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

### General information

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.

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## 5. Fire-fighting measures

|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Unsuitable extinguishing media</b>                                | None known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Specific hazards arising from the chemical</b>                    | Contents under pressure. Pressurized container may explode when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. 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. |
| <b>Special protective equipment and precautions for firefighters</b> | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.                                                                                                                                                                                                                                                                                                                                                    |
| <b>Fire-fighting equipment/instructions</b>                          | In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.                                                                                                                                                                                                                                                                                                                               |
| <b>General fire hazards</b>                                          | Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.                                                                                                                                                                                                                                                                                                                                                                                              |

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## 6. Accidental release measures

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Remove all possible sources of ignition in the surrounding area. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not breathe gas. Emergency personnel need self-contained breathing equipment. 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. |
| <b>Methods and materials for containment and cleaning up</b>               | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS. Prevent entry into waterways, sewer, basements or confined areas.                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Environmental precautions</b>                                           | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. Use appropriate containment to avoid environmental contamination.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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## 7. Handling and storage

|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautions for safe handling</b>                                | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not breathe mist or vapor. Do not breathe gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, please see the product label. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Level 3 Aerosol.<br><br>Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. These alone may be insufficient to remove static electricity. Store in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components                       | Type | Value                  |
|----------------------------------|------|------------------------|
| Carbon dioxide (CAS 124-38-9)    | PEL  | 9000 mg/m3             |
| Cyclohexane (CAS 110-82-7)       | PEL  | 5000 ppm<br>1050 mg/m3 |
| Isopropyl alcohol (CAS 67-63-0)  | PEL  | 300 ppm<br>980 mg/m3   |
| Methylcyclohexane (CAS 108-87-2) | PEL  | 400 ppm<br>2000 mg/m3  |
| n-Heptane (CAS 142-82-5)         | PEL  | 500 ppm<br>2000 mg/m3  |
| n-Hexane (CAS 110-54-3)          | PEL  | 500 ppm<br>1800 mg/m3  |
| n-Octane (CAS 111-65-9)          | PEL  | 500 ppm<br>2350 mg/m3  |

#### US. ACGIH Threshold Limit Values

| Components                       | Type | Value     |
|----------------------------------|------|-----------|
| 3-Methylhexane (CAS 589-34-4)    | STEL | 500 ppm   |
|                                  | TWA  | 400 ppm   |
| Carbon dioxide (CAS 124-38-9)    | STEL | 30000 ppm |
|                                  | TWA  | 5000 ppm  |
| Cyclohexane (CAS 110-82-7)       | TWA  | 100 ppm   |
| Isopropyl alcohol (CAS 67-63-0)  | STEL | 400 ppm   |
|                                  | TWA  | 200 ppm   |
| Methylcyclohexane (CAS 108-87-2) | STEL | 500 ppm   |
|                                  | TWA  | 400 ppm   |
| n-Heptane (CAS 142-82-5)         | STEL | 500 ppm   |
|                                  | TWA  | 400 ppm   |
| n-Hexane (CAS 110-54-3)          | TWA  | 50 ppm    |
| n-Octane (CAS 111-65-9)          | TWA  | 300 ppm   |

#### US. NIOSH: Pocket Guide to Chemical Hazards

| Components                       | Type | Value                               |
|----------------------------------|------|-------------------------------------|
| Carbon dioxide (CAS 124-38-9)    | STEL | 54000 mg/m3                         |
|                                  | TWA  | 30000 ppm<br>9000 mg/m3<br>5000 ppm |
| Cyclohexane (CAS 110-82-7)       | TWA  | 1050 mg/m3<br>300 ppm               |
| Isopropyl alcohol (CAS 67-63-0)  | STEL | 1225 mg/m3                          |
|                                  | TWA  | 500 ppm<br>980 mg/m3<br>400 ppm     |
| Methylcyclohexane (CAS 108-87-2) | TWA  | 1600 mg/m3<br>400 ppm               |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components               | Type    | Value                 |
|--------------------------|---------|-----------------------|
| n-Heptane (CAS 142-82-5) | Ceiling | 1800 mg/m3<br>440 ppm |
|                          | TWA     | 350 mg/m3<br>85 ppm   |
| n-Hexane (CAS 110-54-3)  | TWA     | 180 mg/m3<br>50 ppm   |
|                          | Ceiling | 1800 mg/m3<br>385 ppm |
| n-Octane (CAS 111-65-9)  | TWA     | 350 mg/m3<br>75 ppm   |
|                          |         |                       |

**Biological limit values****ACGIH Biological Exposure Indices**

| Components                      | Value    | Determinant                         | Specimen | Sampling Time |
|---------------------------------|----------|-------------------------------------|----------|---------------|
| Isopropyl alcohol (CAS 67-63-0) | 40 mg/l  | Acetone                             | Urine    | *             |
| n-Hexane (CAS 110-54-3)         | 0.4 mg/l | 2,5-Hexanedio n, without hydrolysis | Urine    | *             |

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

**Exposure guidelines****US - California OELs: Skin designation**

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) 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. Eye wash facilities and emergency shower must be available when handling this product.

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

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

**Skin protection**

**Hand protection** Wear protective gloves such as: Nitrile. Polyvinyl chloride (PVC).

**Other**

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**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**

When using, do not eat, drink or smoke. 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.

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**9. Physical and chemical properties****Appearance**

**Physical state** Liquid.

**Form** Aerosol.

**Color** Clear. Colorless.

**Odor** Pleasant.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** -195.9 °F (-126.6 °C) estimated

**Initial boiling point and boiling range** 179.6 °F (82 °C) estimated

|                                                     |                                |
|-----------------------------------------------------|--------------------------------|
| Flash point                                         | 0 °F (-17.8 °C) Tag Closed Cup |
| Evaporation rate                                    | Fast.                          |
| Flammability (solid, gas)                           | Not available.                 |
| <b>Upper/lower flammability or explosive limits</b> |                                |
| Flammability limit - lower (%)                      | 1.1 % estimated                |
| Flammability limit - upper (%)                      | 12 % estimated                 |
| Vapor pressure                                      | 2630.9 hPa estimated           |
| Vapor density                                       | > 1 (air = 1)                  |
| Relative density                                    | 0.73 estimated                 |
| Solubility (water)                                  | Not available.                 |
| Partition coefficient (n-octanol/water)             | Not available.                 |
| Auto-ignition temperature                           | 539.6 °F (282 °C) estimated    |
| Decomposition temperature                           | Not available.                 |
| Viscosity (kinematic)                               | Not available.                 |
| Percent volatile                                    | 95.5 % 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                | Heat, flames and sparks. Contact with incompatible materials.                                 |
| Incompatible materials             | Acids. Strong oxidizing agents. Strong reducing agents. Isocyanates. Chlorine. Alkalis.       |
| Hazardous decomposition products   | Carbon oxides. Hydrocarbon fumes and smoke.                                                   |

## 11. Toxicological information

### Information on likely routes of exposure

|                                                                              |                                                                                                                                                                                                             |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ingestion                                                                    | Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.                                                                                      |
| Inhalation                                                                   | Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.                                        |
| Skin contact                                                                 | Causes skin irritation.                                                                                                                                                                                     |
| Eye contact                                                                  | May cause slight eye irritation.                                                                                                                                                                            |
| Symptoms related to the physical, chemical and toxicological characteristics | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Irritation of eyes and mucous membranes. Skin irritation. May cause redness and pain. |

### Information on toxicological effects

|                |                                                                 |
|----------------|-----------------------------------------------------------------|
| Acute toxicity | May be fatal if swallowed and enters airways. Narcotic effects. |
|----------------|-----------------------------------------------------------------|

| Product                                             | Species | Test Results                    |
|-----------------------------------------------------|---------|---------------------------------|
| NAPA® Non-Chlorinated Brakleen® Brake Parts Cleaner |         |                                 |
| <b>Acute</b>                                        |         |                                 |
| <i>Dermal</i>                                       |         |                                 |
| LD50                                                | Rabbit  | 2290.3545 mg/kg estimated       |
| <i>Inhalation</i>                                   |         |                                 |
| LC50                                                | Rat     | 59.6922 mg/l, 4 hours estimated |
| <i>Oral</i>                                         |         |                                 |
| LD50                                                | Rat     | 5202.9453 mg/kg estimated       |

\* Estimates for product may be based on additional component data not shown.

|                                  |                         |
|----------------------------------|-------------------------|
| <b>Skin corrosion/irritation</b> | Causes skin irritation. |
|----------------------------------|-------------------------|

|                                                           |                                                                                                                                                               |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Serious eye damage/eye irritation</b>                  | May cause slight eye irritation.                                                                                                                              |
| <b>Respiratory sensitization</b>                          | Not available.                                                                                                                                                |
| <b>Skin sensitization</b>                                 | This product is not expected to cause skin sensitization.                                                                                                     |
| <b>Germ cell mutagenicity</b>                             | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.                                              |
| <b>Carcinogenicity</b>                                    | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                                                               |
| <b>Reproductive toxicity</b>                              | Suspected of damaging fertility.                                                                                                                              |
| <b>Specific target organ toxicity - single exposure</b>   | May cause drowsiness and dizziness.                                                                                                                           |
| <b>Specific target organ toxicity - repeated exposure</b> | May cause damage to organs (central nervous system, kidneys, lungs, skin) through prolonged or repeated exposure.                                             |
| <b>Aspiration hazard</b>                                  | May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vomiting, may cause chemical pneumonia, pulmonary injury or death. |
| <b>Chronic effects</b>                                    | Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure.                                                       |

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

| Product                                             |      | Species                              | Test Results                        |
|-----------------------------------------------------|------|--------------------------------------|-------------------------------------|
| NAPA® Non-Chlorinated Brakleen® Brake Parts Cleaner |      |                                      |                                     |
| <b>Aquatic</b>                                      |      |                                      |                                     |
| Crustacea                                           | EC50 | Daphnia                              | 29166.4414 mg/l, 48 hours estimated |
| <i>Acute</i>                                        |      |                                      |                                     |
| Fish                                                | LC50 | Fish                                 | 8.036 mg/l, 96 hours estimated      |
| Components                                          |      | Species                              | Test Results                        |
| Cyclohexane (CAS 110-82-7)                          |      |                                      |                                     |
| <b>Aquatic</b>                                      |      |                                      |                                     |
| Fish                                                | LC50 | Fathead minnow (Pimephales promelas) | 23.03 - 42.07 mg/l, 96 hours        |
| Isopropyl alcohol (CAS 67-63-0)                     |      |                                      |                                     |
| <b>Aquatic</b>                                      |      |                                      |                                     |
| <i>Acute</i>                                        |      |                                      |                                     |
| Crustacea                                           | EC50 | Water flea (Daphnia magna)           | 7550 - 13299 mg/l, 48 hours         |
| Fish                                                | LC50 | Fathead minnow (Pimephales promelas) | 3200 mg/l, 96 hours                 |
| Methylcyclohexane (CAS 108-87-2)                    |      |                                      |                                     |
| <b>Aquatic</b>                                      |      |                                      |                                     |
| Fish                                                | LC50 | Striped bass (Morone saxatilis)      | 5.8 mg/l, 96 hours                  |
| n-Heptane (CAS 142-82-5)                            |      |                                      |                                     |
| <b>Aquatic</b>                                      |      |                                      |                                     |
| <i>Acute</i>                                        |      |                                      |                                     |
| Fish                                                | LC50 | Fathead minnow (Pimephales promelas) | 2.1 - 2.98 mg/l, 96 hours           |
| n-Hexane (CAS 110-54-3)                             |      |                                      |                                     |
| <b>Aquatic</b>                                      |      |                                      |                                     |
| Fish                                                | LC50 | Fathead minnow (Pimephales promelas) | 2.101 - 2.981 mg/l, 96 hours        |

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

### Partition coefficient n-octanol / water (log Kow)

|                   |      |
|-------------------|------|
| Cyclohexane       | 3.44 |
| Isopropyl alcohol | 0.05 |
| Methylcyclohexane | 3.61 |
| n-Heptane         | 4.66 |
| n-Hexane          | 3.9  |



**Partition coefficient n-octanol / water (log Kow)**

n-Octane

5.18

**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.

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**13. Disposal considerations****Disposal of waste from residues / unused products**

If discarded, this product is considered a RCRA ignitable waste, D001. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.

**Hazardous waste code**

D001: Waste Flammable material with a flash point &lt;140 F

**Contaminated packaging**

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

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**14. Transport information****DOT**

|                                     |                                                                         |
|-------------------------------------|-------------------------------------------------------------------------|
| <b>UN number</b>                    | UN1950                                                                  |
| <b>UN proper shipping name</b>      | Aerosols, flammable, limited quantity                                   |
| <b>Transport hazard class(es)</b>   |                                                                         |
| <b>Class</b>                        | 2.1                                                                     |
| <b>Subsidiary risk</b>              | -                                                                       |
| <b>Label(s)</b>                     | 2.1                                                                     |
| <b>Packing group</b>                | Not applicable.                                                         |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Special provisions</b>           | N82                                                                     |
| <b>Packaging exceptions</b>         | 306                                                                     |
| <b>Packaging non bulk</b>           | None                                                                    |
| <b>Packaging bulk</b>               | None                                                                    |

**IATA**

|                                     |                                                                         |
|-------------------------------------|-------------------------------------------------------------------------|
| <b>UN number</b>                    | UN1950                                                                  |
| <b>UN proper shipping name</b>      | Aerosols, flammable, limited quantity                                   |
| <b>Transport hazard class(es)</b>   |                                                                         |
| <b>Class</b>                        | 2.1                                                                     |
| <b>Subsidiary risk</b>              | -                                                                       |
| <b>Packing group</b>                | Not applicable.                                                         |
| <b>Environmental hazards</b>        | No.                                                                     |
| <b>ERG Code</b>                     | 10L                                                                     |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Other information</b>            |                                                                         |
| <b>Passenger and cargo aircraft</b> | Allowed.                                                                |
| <b>Cargo aircraft only</b>          | Allowed.                                                                |

**IMDG**

|                                     |                                                                         |
|-------------------------------------|-------------------------------------------------------------------------|
| <b>UN number</b>                    | UN1950                                                                  |
| <b>UN proper shipping name</b>      | AEROSOLS, LIMITED QUANTITY, MARINE POLLUTANT                            |
| <b>Transport hazard class(es)</b>   |                                                                         |
| <b>Class</b>                        | 2                                                                       |
| <b>Subsidiary risk</b>              | -                                                                       |
| <b>Packing group</b>                | Not applicable.                                                         |
| <b>Environmental hazards</b>        |                                                                         |
| <b>Marine pollutant</b>             | Yes                                                                     |
| <b>EmS</b>                          | F-D, S-U                                                                |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |

**General information**

IMDG Regulated Marine Pollutant.



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## 15. Regulatory information

### US federal regulations

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

All components are on the U.S. EPA TSCA Inventory List.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### SARA 304 Emergency release notification

Not regulated.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Cyclohexane (CAS 110-82-7)

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Cyclohexane (CAS 110-82-7)

#### CERCLA Hazardous Substances: Reportable quantity

Cyclohexane (CAS 110-82-7) 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.

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Section 311/312** Immediate Hazard - Yes

**Hazard categories** Delayed Hazard - Yes

Fire Hazard - Yes

Pressure Hazard - Yes

Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

### US state regulations

#### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

#### US. New Jersey Worker and Community Right-to-Know Act

3-Methylhexane (CAS 589-34-4)

Carbon dioxide (CAS 124-38-9)

Methylcyclohexane (CAS 108-87-2)

n-Heptane (CAS 142-82-5)

Cyclohexane (CAS 110-82-7)

Isopropyl alcohol (CAS 67-63-0)

n-Hexane (CAS 110-54-3)

#### US. Massachusetts RTK - Substance List

3-Methylhexane (CAS 589-34-4)

Carbon dioxide (CAS 124-38-9)

Cyclohexane (CAS 110-82-7)

Isopropyl alcohol (CAS 67-63-0)

Methylcyclohexane (CAS 108-87-2)

n-Heptane (CAS 142-82-5)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Cyclohexane (CAS 110-82-7)

Isopropyl alcohol (CAS 67-63-0)

3-Methylhexane (CAS 589-34-4)

Carbon dioxide (CAS 124-38-9)

Methylcyclohexane (CAS 108-87-2)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

n-Octane (CAS 111-65-9)

#### US. Rhode Island RTK

Cyclohexane (CAS 110-82-7)

n-Hexane (CAS 110-54-3)

#### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

##### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Benzene (CAS 71-43-2)

Listed: February 27, 1987

Ethylbenzene (CAS 100-41-4)

Listed: June 11, 2004

##### US - California Proposition 65 - CRT: Listed date/Developmental toxin

Benzene (CAS 71-43-2)

Listed: December 26, 1997

Toluene (CAS 108-88-3)

Listed: January 1, 1991

##### US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Toluene (CAS 108-88-3)

Listed: August 7, 2009

##### US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Benzene (CAS 71-43-2)

Listed: December 26, 1997

#### Volatile organic compounds (VOC) regulations

##### EPA

**VOC content (40 CFR 51.100(s))** 95.5 %

**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, Connecticut, Delaware, the District of Columbia, Illinois, Indiana, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island and parts of Utah and Virginia. This product is compliant in all other states.

**VOC content (CA)** 95.5 %

**VOC content (OTC)** 95.5 %

#### International Inventories

| Country(s) or region        | Inventory name                                                         | On inventory (yes/no)* |
|-----------------------------|------------------------------------------------------------------------|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | No                     |
| Canada                      | Domestic Substances List (DSL)                                         | No                     |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | No                     |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)                                          | No                     |
| New Zealand                 | New Zealand Inventory                                                  | No                     |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | No                     |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*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

|                            |             |
|----------------------------|-------------|
| <b>Issue date</b>          | 12-05-2013  |
| <b>Revision date</b>       | 08-29-2014  |
| <b>Prepared by</b>         | Allison Cho |
| <b>Version #</b>           | 02          |
| <b>Further information</b> | CRC # 881A  |

**HMIS® ratings**

Health: 2\*  
Flammability: 4  
Physical hazard: 0  
Personal protection: B

**NFPA ratings**

Health: 2  
Flammability: 4  
Instability: 0

**NFPA ratings****Disclaimer**

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