



SAFETY DATA SHEET

1. Identification

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|---|--|
| Product identifier | Brakleen® Brake Parts Cleaner |
| Other means of identification | |
| Product Code | No. 05088 (Item# 1003704) |
| 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) |
| Website | www.crcindustries.com |

2. Hazard(s) identification

| | | |
|------------------------------|--|---|
| Physical hazards | Flammable aerosols | Category 1 |
| | Gases under pressure | Compressed gas |
| 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 1 |
| | 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

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. 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). Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. 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. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist/vapors. Do not apply while equipment is energized. 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. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response

If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it 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. 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.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---|--------------------------|-------------|---------|
| methanol | | 67-56-1 | 30 - 40 |
| naphtha (petroleum), hydrotreated light | | 64742-49-0 | 10 - 20 |
| toluene | | 108-88-3 | 10 - 20 |
| acetone | | 67-64-1 | 5 - 15 |
| carbon dioxide | | 124-38-9 | 5 - 10 |
| heptane, branched, cyclic and linear | | 426260-76-6 | 5 - 10 |
| solvent naphtha (petroleum), light aliph. | | 64742-89-8 | 3 - 5 |
| n-heptane | | 142-82-5 | 1 - 3 |
| 2-methylhexane | | 591-76-4 | < 1 |
| 3-methylhexane | | 589-34-4 | < 1 |
| 2,3-dimethylpentane | | 565-59-3 | < 0.2 |
| 3-ethylpentane | | 617-78-7 | < 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. Call a poison center or doctor/physician if you feel unwell.

Skin contact

Remove contaminated clothing. Wash with plenty of soap and water. 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 | Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. 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 warm. 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. |

5. Fire-fighting measures

| | |
|--|---|
| Suitable extinguishing media | Water fog. Alcohol resistant foam. Carbon dioxide (CO ₂). 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 | Contents under pressure. Pressurized container may rupture 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. |
| Special protective equipment and precautions for firefighters | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |
| Fire-fighting equipment/instructions | 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. Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes. |
| General fire hazards | Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame. |

6. Accidental release measures

| | |
|--|--|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Remove all possible sources of ignition in the surrounding area. Keep out of low areas. 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/vapors. 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. |
| 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. This product is miscible in water. Prevent product from entering drains. 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. |
| 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. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. 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/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. 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, see the product label.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

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 tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. 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 |
|--|------|------------------------|
| acetone (CAS 67-64-1) | PEL | 2400 mg/m3 1000 ppm |
| carbon dioxide (CAS 124-38-9) | PEL | 9000 mg/m3 5000 ppm |
| methanol (CAS 67-56-1) | PEL | 260 mg/m3 200 ppm |
| naphtha (petroleum), hydrotreated light (CAS 64742-49-0) | PEL | 400 mg/m3 100 ppm |
| n-heptane (CAS 142-82-5) | PEL | 2000 mg/m3 500 ppm |
| solvent naphtha (petroleum), light aliph. (CAS 64742-89-8) | PEL | 400 mg/m3 100 ppm |

US. OSHA Table Z-2 (29 CFR 1910.1000)

| Components | Type | Value |
|------------------------|---------|---------|
| toluene (CAS 108-88-3) | Ceiling | 300 ppm |
| | TWA | 200 ppm |

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|------------------------------------|------|---------|
| 2,3-dimethylpentane (CAS 565-59-3) | STEL | 500 ppm |
| | TWA | 400 ppm |
| 2-methylhexane (CAS 591-76-4) | STEL | 500 ppm |

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|-------------------------------|-------------|--------------|
| | TWA | 400 ppm |
| 3-ethylpentane (CAS 617-78-7) | STEL | 500 ppm |
| | TWA | 400 ppm |
| 3-methylhexane (CAS 589-34-4) | STEL | 500 ppm |
| | TWA | 400 ppm |
| acetone (CAS 67-64-1) | STEL | 500 ppm |
| | TWA | 250 ppm |
| carbon dioxide (CAS 124-38-9) | STEL | 30000 ppm |
| | TWA | 5000 ppm |
| methanol (CAS 67-56-1) | STEL | 250 ppm |
| | TWA | 200 ppm |
| n-heptane (CAS 142-82-5) | STEL | 500 ppm |
| | TWA | 400 ppm |
| toluene (CAS 108-88-3) | TWA | 20 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|--|-------------|--------------------------|
| acetone (CAS 67-64-1) | TWA | 590 mg/m3 250 ppm |
| carbon dioxide (CAS 124-38-9) | STEL | 54000 mg/m3 30000 ppm |
| | TWA | 9000 mg/m3 5000 ppm |
| methanol (CAS 67-56-1) | STEL | 325 mg/m3 250 ppm |
| | TWA | 260 mg/m3 200 ppm |
| naphtha (petroleum), hydrotreated light (CAS 64742-49-0) | TWA | 400 mg/m3 100 ppm |
| n-heptane (CAS 142-82-5) | Ceiling | 1800 mg/m3 440 ppm |
| | TWA | 350 mg/m3 85 ppm |
| solvent naphtha (petroleum), light aliph. (CAS 64742-89-8) | TWA | 400 mg/m3 100 ppm |
| toluene (CAS 108-88-3) | STEL | 560 mg/m3 150 ppm |
| | TWA | 375 mg/m3 100 ppm |

Biological limit values

ACGIH Biological Exposure Indices

| Components | Value | Determinant | Specimen | Sampling Time |
|------------------------|-----------|---------------------------|---------------------|---------------|
| acetone (CAS 67-64-1) | 25 mg/l | Acetone | Urine | * |
| methanol (CAS 67-56-1) | 15 mg/l | Methanol | Urine | * |
| toluene (CAS 108-88-3) | 0.3 mg/g | o-Cresol, with hydrolysis | Creatinine in urine | * |
| | 0.03 mg/l | Toluene | Urine | * |
| | 0.02 mg/l | Toluene | Blood | * |

* - 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)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

methanol (CAS 67-56-1)

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 should 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. Neoprene. Polyvinyl alcohol (PVA).

Other

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

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

Aerosol.

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

132.9 °F (56.1 °C) estimated

Flash point

-0.00004 °F (-17.8 °C) estimated

Evaporation rate

Fast.

| | |
|---|-----------------------------|
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | 1 % estimated |
| Flammability limit - upper (%) | 36 % estimated |
| Vapor pressure | 4438 hPa estimated |
| Vapor density | > 1 (air = 1) |
| Relative density | 0.84 estimated |
| Solubility(ies) | |
| Solubility (water) | Slightly soluble. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | 539.6 °F (282 °C) estimated |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Percent volatile | 92.3 % 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 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials. |
| Incompatible materials | Acids. Strong oxidizing agents. Aluminum. |
| Hazardous decomposition products | Carbon oxides. Hydrocarbon fumes and smoke. Aldehydes. Formaldehyde. |

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|--|
| Inhalation | May cause damage to organs by inhalation. May cause drowsiness and 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

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways.

| Components | Species | Test Results |
|-------------------------------|---------|--------------------|
| 3-methylhexane (CAS 589-34-4) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 2000 mg/kg |
| Inhalation | | |
| LC50 | Rat | > 20 mg/l, 4 hours |
| Oral | | |
| LD50 | Rat | > 2000 mg/kg |

| Components | Species | Test Results |
|--|---------|------------------------------|
| acetone (CAS 67-64-1) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | > 15800 mg/kg 20000 mg/kg |
| Inhalation | | |
| LC50 | Rat | 76 mg/l, 4 Hours |
| Oral | | |
| LD50 | Rat | 5800 mg/kg |
| carbon dioxide (CAS 124-38-9) | | |
| <u>Acute</u> | | |
| Inhalation | | |
| Gas | | |
| LC50 | Rat | 470000 ppm, 30 minutes |
| heptane, branched, cyclic and linear (CAS 426260-76-6) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | > 2000 mg/kg |
| Inhalation | | |
| LC50 | Rat | > 60 mg/l, 4 hours |
| Oral | | |
| LD50 | Rat | > 5000 mg/kg |
| methanol (CAS 67-56-1) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | 12800 mg/kg |
| Oral | | |
| LD50 | Rat | 5628 mg/kg |
| naphtha (petroleum), hydrotreated light (CAS 64742-49-0) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | > 2000 mg/kg |
| Inhalation | | |
| LC50 | Rat | 61 mg/l, 4 Hours |
| Oral | | |
| LD50 | Rat | > 5000 mg/kg |
| n-heptane (CAS 142-82-5) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | 3000 mg/kg |
| Inhalation | | |
| Vapor | | |
| LC50 | Rat | > 73.5 mg/l, 4 hours |
| Oral | | |
| LD50 | Rat | 25000 mg/kg |
| solvent naphtha (petroleum), light aliph. (CAS 64742-89-8) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | > 2000 mg/kg |

| Components | Species | Test Results |
|---|--|--------------------|
| Inhalation | | |
| LC50 | Rat | 61 mg/l, 4 Hours |
| Oral | | |
| LD50 | Rat | > 3000 mg/kg |
| toluene (CAS 108-88-3) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 5000 mg/kg |
| Inhalation | | |
| LC50 | Rat | 12.5 mg/l, 4 hours |
| Oral | | |
| LD50 | Rat | 5580 mg/kg |
| 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 | | |
| Not listed. | | |
| OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) | | |
| Not regulated. | | |
| 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 and dizziness. | |
| Specific target organ toxicity - repeated exposure | Causes 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. Causes damage to organs through prolonged or repeated exposure. | |

12. Ecological information

| Components | Species | Test Results |
|--|---------|---|
| Ecotoxicity Toxic to aquatic life with long lasting effects. | | |
| acetone (CAS 67-64-1) | | |
| Aquatic | | |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) |
| <i>Acute</i> | | |
| Crustacea | EC50 | Daphnia magna |
| heptane, branched, cyclic and linear (CAS 426260-76-6) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Crustacea | EC50 | Water flea (Daphnia magna) |
| methanol (CAS 67-56-1) | | |
| Aquatic | | |
| Crustacea | EC50 | Water flea (Daphnia magna) |

| Components | | Species | Test Results |
|--|------|--|---------------------------|
| Fish | LC50 | Fathead minnow (<i>Pimephales promelas</i>) | > 100 mg/l, 96 hours |
| naphtha (petroleum), hydrotreated light (CAS 64742-49-0) | | | |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Daphnia | 1 - 10 mg/l, 48 hours |
| Fish | LC50 | Fish | 1 - 10 mg/l, 96 hours |
| n-heptane (CAS 142-82-5) | | | |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Water flea (<i>Daphnia magna</i>) | 1.5 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (<i>Pimephales promelas</i>) | 2.1 - 2.98 mg/l, 96 hours |
| solvent naphtha (petroleum), light aliph. (CAS 64742-89-8) | | | |
| Aquatic | | | |
| Fish | LC50 | Rainbow trout, donaldson trout (<i>Oncorhynchus mykiss</i>) | 8.8 mg/l, 96 hours |
| | | | 8.8 mg/l, 96 hours |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Water flea (<i>Daphnia magna</i>) | 1.5 mg/l, 48 hours |
| toluene (CAS 108-88-3) | | | |
| <i>Acute</i> | | | |
| Other | EC50 | <i>Pseudokirchnerella subcapitata</i> | 433 mg/l, 96 hours |
| | | | 12.5 mg/l, 72 hours |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Water flea (<i>Daphnia magna</i>) | 6 mg/l, 48 hours |
| Fish | LC50 | Coho salmon, silver salmon (<i>Oncorhynchus kisutch</i>) | 5.5 mg/l, 96 hours |

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

Bioaccumulative potential

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 - 25000 |
| toluene | 90 |

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation potential.

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. 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 <140 F
F005: Waste Non-halogenated Solvent - Spent Non-halogenated Solvent

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 | UN1950 |
| UN proper shipping name | Aerosols, flammable, Limited Quantity |
| Transport hazard class(es) | |
| Class | 2.1 |
| Subsidiary risk | 6.1(PGIII) |
| Packing group | Not applicable. |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Special provisions | N82 |
| Packaging exceptions | 306 |
| Packaging non bulk | None |
| Packaging bulk | None |

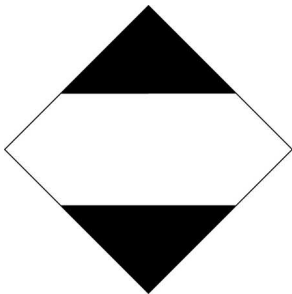
IATA

| | |
|-------------------------------------|---|
| UN number | UN1950 |
| UN proper shipping name | Aerosols, flammable, containing substances in Division 6.1, Packing Group III |
| Transport hazard class(es) | |
| Class | 2.1 |
| Subsidiary risk | 6.1(PGIII) |
| Packing group | Not applicable. |
| ERG Code | 10P |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Other information | |
| Passenger and cargo aircraft | Allowed with restrictions. |
| Cargo aircraft only | Allowed with restrictions. |

IMDG

| | |
|-------------------------------------|---|
| UN number | UN1950 |
| UN proper shipping name | AEROSOLS |
| Transport hazard class(es) | |
| Class | 2.1 |
| Subsidiary risk | 6.1(PGIII) |
| Packing group | Not applicable. |
| Environmental hazards | |
| Marine pollutant | Yes, but exempt from the regulations. |
| EmS | Not available. |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

DOT



IATA; IMDG



15. Regulatory information

US federal regulations

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

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

Not regulated.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

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

methanol (CAS 67-56-1)

toluene (CAS 108-88-3)

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.

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)

Not regulated.

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)

Gas under pressure

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)

| Chemical name | CAS number | % by wt. |
|---------------|------------|----------|
| methanol | 67-56-1 | 30 - 40 |
| toluene | 108-88-3 | 10 - 20 |

US state regulations**US. New Jersey Worker and Community Right-to-Know Act**

2,3-dimethylpentane (CAS 565-59-3)
 3-methylhexane (CAS 589-34-4)
 acetone (CAS 67-64-1)
 carbon dioxide (CAS 124-38-9)
 methanol (CAS 67-56-1)
 naphtha (petroleum), hydrotreated light (CAS 64742-49-0)
 n-heptane (CAS 142-82-5)
 solvent naphtha (petroleum), light aliph. (CAS 64742-89-8)
 toluene (CAS 108-88-3)

US. Massachusetts RTK - Substance List

2,3-dimethylpentane (CAS 565-59-3)
 2-methylhexane (CAS 591-76-4)
 3-methylhexane (CAS 589-34-4)
 acetone (CAS 67-64-1)
 carbon dioxide (CAS 124-38-9)
 methanol (CAS 67-56-1)
 naphtha (petroleum), hydrotreated light (CAS 64742-49-0)
 n-heptane (CAS 142-82-5)
 solvent naphtha (petroleum), light aliph. (CAS 64742-89-8)
 toluene (CAS 108-88-3)

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

2,3-dimethylpentane (CAS 565-59-3)
 3-methylhexane (CAS 589-34-4)
 acetone (CAS 67-64-1)
 carbon dioxide (CAS 124-38-9)
 methanol (CAS 67-56-1)
 naphtha (petroleum), hydrotreated light (CAS 64742-49-0)
 n-heptane (CAS 142-82-5)
 solvent naphtha (petroleum), light aliph. (CAS 64742-89-8)
 toluene (CAS 108-88-3)

US. Rhode Island RTK

acetone (CAS 67-64-1)
 carbon dioxide (CAS 124-38-9)
 methanol (CAS 67-56-1)
 naphtha (petroleum), hydrotreated light (CAS 64742-49-0)
 n-heptane (CAS 142-82-5)
 solvent naphtha (petroleum), light aliph. (CAS 64742-89-8)
 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 98-82-8) | 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 |
| methanol (CAS 67-56-1) | Listed: March 16, 2012 |
| toluene (CAS 108-88-3) | Listed: January 1, 1991 |

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

| | |
|-------------------------|---------------------------|
| benzene (CAS 71-43-2) | Listed: December 26, 1997 |
| n-hexane (CAS 110-54-3) | Listed: December 15, 2017 |

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)
solvent naphtha (petroleum), light aliph. (CAS 64742-89-8)
toluene (CAS 108-88-3)

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 51.100(s)) 84 %

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) 84 %

VOC content (OTC) 84 %

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) | Yes |
| 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) | Yes |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| Taiwan | Taiwan Chemical Substance Inventory (TCSI) | Yes |
| 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

Issue date 01-31-2019

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Version # 01

Further information CRC # 483A/1002477

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Revision information This document has undergone significant changes and should be reviewed in its entirety.