

1. Identification

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|---|--|----------------------|--|
| Product identifier | Motor Medic Heavy Duty Brake Fluid - DOT 3 | | |
| Other means of identification | | | |
| SDS number | M4412 | | |
| Part No. | M4412, M4432, M4434, M4440, M4449 | | |
| Tariff code | 3819.00.0010 | | |
| Recommended use | Brake Fluid | | |
| Recommended restrictions | None known. | | |
| Manufacturer/Importer/Supplier/Distributor information | | | |
| Manufacturer | | | |
| Company name | RSC Chemical Solutions | | |
| Address | 600 Radiator Road Indian Trail, NC 28079 United States | | |
| Telephone | Customer Service: | (704) 821-7643 | |
| | Technical: | (704) 684-1811 | |
| Website | www.rscbrands.com | | |
| E-mail | sds@rscbrands.com | | |
| Emergency phone number | Emergency Telephone: | (303) 623-5716 | |
| | Emergency Contact: | RMPDC (877-740-5015) | |

2. Hazard(s) identification

| | | |
|-----------------------|-----------------------------------|------------|
| Physical hazards | Not classified. | |
| Health hazards | Acute toxicity, oral | Category 4 |
| | Acute toxicity, dermal | Category 5 |
| | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 1 |
| Environmental hazards | Not classified. | |
| OSHA defined hazards | Not classified. | |
| Label elements | | |



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| Signal word | Danger |
| Hazard statement | Harmful if swallowed. May be harmful in contact with skin. Causes skin irritation. Causes serious eye damage. |
| Precautionary statement | |
| Prevention | Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves. Wear eye/face protection. |
| Response | If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Rinse mouth. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. |
| Storage | Store away from incompatible materials. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (HNOC) | None known. |

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|--|--------------------------|------------|-----------|
| 2-(2-butoxyéthoxy) Éthanol | | 112-34-5 | 5 - < 10 |
| Diethyleneglycol | | 111-46-6 | 5 - < 10 |
| Polyethyleneglycol | | 25322-68-3 | 5 - < 10 |
| Diethylene Glycol Methyl Ether | | 111-77-3 | 1 - < 3 |
| Diethylenglykolmonoethylether | | 111-90-0 | 1 - < 3 |
| Other components below reportable levels | | | 70 - < 80 |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

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| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
| Skin contact | Remove contaminated clothing. Wash with plenty of soap and water. Get medical advice/attention if you feel unwell. 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 immediately. |
| Ingestion | Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell. |
| Most important symptoms/effects, acute and delayed | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. |
| 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 | 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

| | |
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| Suitable extinguishing media | Powder. Alcohol resistant foam. Carbon dioxide (CO ₂). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions | Move containers from fire area if you can do so without risk. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | No unusual fire or explosion hazards noted. |

6. Accidental release measures

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| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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 | <p>Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p> |

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Provide adequate ventilation. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. 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. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|---|------|--------|-------------------------------|
| 2-(2-butoxyéthoxy) Éthanol (CAS 112-34-5) | TWA | 10 ppm | Inhalable fraction and vapor. |

US. Workplace Environmental Exposure Level (WEEL) Guides

| Components | Type | Value | Form |
|--|------|--------------------|--------------|
| Diethyleneglycol (CAS 111-46-6) | TWA | 10 mg/m3 | |
| Diethylenglykolmonoethylether (CAS 111-90-0) | TWA | 140 mg/m3 | |
| Polyethyleneglycol (CAS 25322-68-3) | TWA | 25 ppm 10 mg/m3 | Particulate. |

Biological limit values No biological exposure limits noted for the ingredient(s).

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) and a face shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations 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

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|--|--------------------------------|
| Appearance | Liquid. Clear. |
| Physical state | Liquid. |
| Form | Liquid. |
| Color | Light yellow to amber |
| Odor | Mild |
| Odor threshold | Not available. |
| pH | 10 - 11.5 |
| Melting point/freezing point | -90.58 °F (-68.1 °C) estimated |
| Initial boiling point and boiling range | 446.72 °F (230.4 °C) estimated |
| Flash point | > 275.0 °F (> 135.0 °C) |
| Evaporation rate | < 0.01 BuAc |

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|---|------------------------------|
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | 0.01 hPa estimated |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | 442 °F (227.78 °C) estimated |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Density | 8.33 - 9.02 lbs/gal |
| Explosive properties | Not explosive. |
| Flammability class | Combustible IIIB estimated |
| Oxidizing properties | Not oxidizing. |
| Percent volatile | 23.19 % estimated |
| Specific gravity | 1 - 1.07 |

10. Stability and reactivity

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|---|---|
| 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 | Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|--|
| Inhalation | Prolonged inhalation may be harmful. |
| Skin contact | May be harmful in contact with skin. Causes skin irritation. |
| Eye contact | Causes serious eye damage. |
| Ingestion | Harmful if swallowed. |

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|---|---|
| Symptoms related to the physical, chemical and toxicological characteristics | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. |
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Information on toxicological effects

| | |
|-----------------------|--|
| Acute toxicity | Harmful if swallowed. May be harmful in contact with skin. |
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| Components | Species | Test Results |
|---|---------|--------------|
| 2-(2-butoxyéthoxy) Éthanol (CAS 112-34-5) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | 2700 mg/kg |

| Components | Species | Test Results |
|---|------------|--------------|
| Inhalation | | |
| <i>Liquid</i> | | |
| LC50 | Rat | > 29 ppm |
| Oral | | |
| LD50 | Guinea pig | 2000 mg/kg |
| | Mouse | 2400 mg/kg |
| | Rabbit | 2200 mg/kg |
| | Rat | 4500 mg/kg |
| Diethylene Glycol Methyl Ether (CAS 111-77-3) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | 6540 mg/kg |
| Oral | | |
| LD50 | Guinea pig | 4160 mg/kg |
| | | 4.16 g/kg |
| | Mouse | 8222 mg/kg |
| | Rabbit | 7.19 g/kg |
| | Rat | 5500 mg/kg |
| Diethyleneglycol (CAS 111-46-6) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | 11890 mg/kg |
| Oral | | |
| LD50 | Cat | 3300 mg/kg |
| | Dog | 9000 mg/kg |
| | Guinea pig | 8700 mg/kg |
| | Mouse | 13.3 g/kg |
| | Rabbit | 26.9 g/kg |
| | Rat | 12565 mg/kg |
| Diethylenglykolmonoethylether (CAS 111-90-0) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Guinea pig | 5900 mg/kg |
| | Mouse | 6000 mg/kg |
| | Rabbit | 8476 mg/kg |
| | Rat | 6000 mg/kg |
| Oral | | |
| LD50 | Guinea pig | 3000 mg/kg |
| | Mouse | 6.58 g/kg |
| | Rabbit | 3620 mg/kg |
| | Rat | 1920 mg/kg |

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

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

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| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Carcinogenicity | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. |
| OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) | |
| Not listed. | |
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. |
| Specific target organ toxicity - single exposure | Not classified. |
| Specific target organ toxicity - repeated exposure | Not classified. |
| Aspiration hazard | Not an aspiration hazard. |
| Chronic effects | Prolonged inhalation may be harmful. |

12. Ecological information

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| Ecotoxicity | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
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| Components | Species | | Test Results |
|---|---------|---|------------------------|
| 2-(2-butoxyéthoxy) Éthanol (CAS 112-34-5) | | | |
| Aquatic | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 1300 mg/l, 96 hours |
| Diethylene Glycol Methyl Ether (CAS 111-77-3) | | | |
| Aquatic | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 7500 mg/l, 96 hours |
| Diethyleneglycol (CAS 111-46-6) | | | |
| Aquatic | | | |
| Fish | LC50 | Western mosquitofish (Gambusia affinis) | > 32000 mg/l, 96 hours |
| Diethylenglykolmonoethylether (CAS 111-90-0) | | | |
| Aquatic | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | > 10000 mg/l, 96 hours |
| Polyethyleneglycol (CAS 25322-68-3) | | | |
| Aquatic | | | |
| Fish | LC50 | Atlantic salmon (Salmo salar) | > 1000 mg/l, 96 hours |

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

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

| | |
|--------------------------------|-------|
| 2-(2-butoxyéthoxy) Éthanol | 0.56 |
| Diethyleneglykolmonoethylether | -0.54 |

| | |
|-------------------------|--------------------|
| Mobility in soil | No data available. |
|-------------------------|--------------------|

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

13. Disposal considerations

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| Disposal instructions | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Local disposal regulations | Dispose in accordance with all applicable regulations. |
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| 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

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

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.

CERCLA Hazardous Substance List (40 CFR 302.4)

| | |
|---|---------|
| 2-(2-butoxyéthoxy) Éthanol (CAS 112-34-5) | Listed. |
| Diethylene Glycol Methyl Ether (CAS 111-77-3) | Listed. |
| Diethylenglykolmonoethylether (CAS 111-90-0) | Listed. |

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

| | |
|--------------------------|------------------------|
| Hazard categories | Immediate Hazard - Yes |
| | Delayed Hazard - No |
| | Fire Hazard - No |
| | Pressure Hazard - No |
| | Reactivity Hazard - No |

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|--------------------------------|------------|----------|
| 2-(2-butoxyéthoxy) Éthanol | 112-34-5 | 5 - < 10 |
| Diethylene Glycol Methyl Ether | 111-77-3 | 1 - < 3 |
| Diethylenglykolmonoethylether | 111-90-0 | 1 - < 3 |

Other federal regulations

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

2-(2-butoxyéthoxy) Éthanol (CAS 112-34-5)
Diethylene Glycol Methyl Ether (CAS 111-77-3)
Diethylenglykolmonoethylether (CAS 111-90-0)

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

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

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

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

2-(2-butoxyéthoxy) Éthanol (CAS 112-34-5)
Diethylene Glycol Methyl Ether (CAS 111-77-3)
Diethylenglykolmonoethylether (CAS 111-90-0)

US. Massachusetts RTK - Substance List

Diethylene Glycol Methyl Ether (CAS 111-77-3)

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

2-(2-butoxyéthoxy) Éthanol (CAS 112-34-5)

Diethylene Glycol Methyl Ether (CAS 111-77-3)

Diethyleneglykolmonoethylether (CAS 111-90-0)

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

2-(2-butoxyéthoxy) Éthanol (CAS 112-34-5)

Diethylene Glycol Methyl Ether (CAS 111-77-3)

Diethyleneglycol (CAS 111-46-6)

Diethyleneglykolmonoethylether (CAS 111-90-0)

US. Rhode Island RTK

2-(2-butoxyéthoxy) Éthanol (CAS 112-34-5)

Diethylene Glycol Methyl Ether (CAS 111-77-3)

Diethyleneglykolmonoethylether (CAS 111-90-0)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| 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) | Yes |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | 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 | 04-13-2015 |
| Revision date | 01-11-2016 |
| Version # | 03 |
| HMIS® ratings | Health: 1 Flammability: 1 Physical hazard: 0 |
| NFPA ratings | Health: 1 Flammability: 1 Instability: 0 |
| NFPA ratings | |

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

