SAFETY DATA SHEET



1. Identification

| Product identifier | oduct identifier Motor Medic 10 Minute Radiator Flush | |
|----------------------------------|---|----------------------|
| Other means of identification | | |
| SDS number | C1449 | |
| Part No. | C1449 | |
| Tariff code | 3402.20.5100 | |
| Recommended use | Radiator Flush | |
| Recommended restrictions | None known. | |
| Manufacturer/Importer/Supplier/I | 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 | Not classified. |
| Environmental hazards | Not classified. |
| OSHA defined hazards | Not classified. |
| | |

Label elements



| Signal word | Warning | |
|--|--|--|
| Hazard statement | Harmful if inhaled. | |
| Precautionary statement | | |
| Prevention | Avoid breathing vapors. Use only outdoors or in a well-ventilated area. | |
| Response | If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. | |
| Storage | Store away from incompatible materials. | |
| Disposal | Dispose of waste and residues in accordance with local authority requirements. | |
| Hazard(s) not otherwise classified (HNOC) | None known. | |
| Supplemental information | % of the mixture consists of component(s) of unknown acute inhalation toxicity. | |

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|--|--------------------------|------------|----------|
| 2-Butoxyethanol | | 111-76-2 | 3 - < 5 |
| Other components below reportable levels | | | 90 - 100 |

*Designates that a 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. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell. |
| Skin contact | Wash off with soap and water. Get medical attention if irritation develops and persists. |
| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Most important symptoms/effects, acute and delayed | Direct contact with eyes may cause temporary irritation. |
| 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. |
| 5. Fire-fighting measures | |

| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). |
|---|---|
| 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

| 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. Avoid inhalation of vapors and spray mists. 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 | Large Spills: Stop the flow of material, if this is without risk. 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. |
| | Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. |
| | Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. |
| Environmental precautions | Avoid discharge into drains, water courses or onto the ground. |
| 7. Handling and storage | |
| Precautions for safe handling | Do not get in eyes, on skin, or on clothing. Avoid inhalation of vapors and spray mists. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
| Conditions for safe storage, including any incompatibilities | Store in original tightly closed container. Store in a well-ventilated place. 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 | Туре | Value | |
| 2-Butoxyethanol (CAS 111-76-2) | PEL | 240 mg/m3 | |
| | | 50 ppm | |
| | | | |

| US. ACGIH Threshold Limit Components | : Values Type | | Va | lue |
|---|---|--|---------------------------------------|--|
| 2-Butoxyethanol (CAS 111-76-2) | TWA | | 20 | ppm |
| US. NIOSH: Pocket Guide to Components | o Chemical Hazards Type | | Va | lue |
| 2-Butoxyethanol (CAS 111-76-2) | TWA | | 24 | mg/m3 |
| | | | 5 p | pm |
| Biological limit values | | | | |
| ACGIH Biological Exposure Components | e Indices /alue | Determinant | Specimen | Sampling Time |
| 2-Butoxyethanol (CAS 2 111-76-2) | 200 mg/g | Butoxyacetic acid (BAA), with hydrolysis | Creatinine in urine | * |
| * - For sampling details, pleas | se see the source docu | iment. | | |
| Exposure guidelines | | | | |
| US - California OELs: Skin | designation | | | |
| 2-Butoxyethanol (CAS 1 US - Minnesota Haz Subs: \$ | , | | absorbed throu | gh the skin. |
| 2-Butoxyethanol (CAS 1 US - Tennessee OELs: Skir | | Skin de | signation applie | S. |
| 2-Butoxyethanol (CAS 1 US NIOSH Pocket Guide to | | | absorbed throu | gh the skin. |
| 2-Butoxyethanol (CAS 1 US. OSHA Table Z-1 Limits | for Air Contaminants | (29 CFR 1910.100 | - | - |
| 2-Butoxyethanol (CAS 1 | | | absorbed throu | - |
| Appropriate engineering controls | should be matched t or other engineering | to conditions. If app controls to maintain | licable, use proo n airborne level | our) should be used. Ventilation rates cess enclosures, local exhaust ventilation, s below recommended exposure limits. If borne levels to an acceptable level. |
| Individual protection measures Eye/face protection | , such as personal pro Chemical respirator | | | Il facepiece. |
| Skin protection | | | | |
| Hand protection | Wear appropriate ch supplier. | nemical resistant glo | oves. Suitable gl | oves can be recommended by the glove |
| Other | Wear suitable protect | ctive clothing. | | |
| Respiratory protection | Chemical respirator | with organic vapor | cartridge and fu | Il facepiece. |
| Thermal hazards | Wear appropriate the | ermal protective clo | thing, when neo | cessary. |
| General hygiene considerations | | rinking, and/or smol | | h as washing after handling the material wash work clothing and protective |
| 9. Physical and chemical | properties | | | |
| Appearance | Liquid. Clear. | | | |
| Physical state | Liquid. | | | |
| Form | Liquid. | | | |
| Color | Fluorescent Light ye | llow. | | |
| Odor | Characteristic odor | | | |
| Odor threshold | Not available. | | | |
| рН | 7 - 9 | | | |
| Melting point/freezing point | Not available. | | | |
| Initial boiling point and boiling range | Not available. | | | |
| Flash point | Not available. | | | |

| | | N 1 1 1 |
|---|--|-----------------------|
| | Evaporation rate | Not available. |
| I | Flammability (solid, gas) | Not applicable. |
| I | Upper/lower flammability or exp | losive limits |
| | Flammability limit - lower (%) | Not available. |
| | Flammability limit - upper (%) | Not available. |
| | Explosive limit - lower (%) | Not available. |
| | Explosive limit - upper (%) | Not available. |
| , | Vapor pressure | 0.00001 hPa estimated |
| , | Vapor density | Not available. |
| I | Relative density | Not available. |
| ; | Solubility(ies) | |
| | Solubility (water) | Not available. |
| | Partition coefficient (n-octanol/water) | Not available. |
| | Auto-ignition temperature | Not available. |
| I | Decomposition temperature | Not available. |
| 1 | Viscosity | Not available. |
| (| Other information | |
| | Density | 8.34 lbs/gal |
| | Explosive properties | Not explosive. |
| | Oxidizing properties | Not oxidizing. |
| | Percent volatile | 99.74 % estimated |
| | Specific gravity | 1 |
| | VOC (Weight %) | 3.5 % |
| | | |

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 | 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 | Harmful if inhaled. |
|--|--|
| Skin contact | 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans. |
| Eye contact | Direct contact with eyes may cause temporary irritation. |
| Ingestion | Expected to be a low ingestion hazard. |
| Symptoms related to the physical, chemical and toxicological characteristics | Direct contact with eyes may cause temporary irritation. |
| Information on toxicological effects | |
| Acute toxicity | Harmful if inhaled. |

| Components | Species | Test Results |
|---|--|--|
| 2-Butoxyethanol (CAS 111-76-2) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 400 mg/kg |
| Inhalation | | |
| LC50 | Mouse | 700 ppm, 7 Hours |
| | Rat | 450 ppm, 4 Hours |
| Oral | | |
| LD50 | Guinea pig | 1.2 g/kg |
| | Mouse | 1.2 g/kg |
| | Rabbit | 0.32 g/kg |
| | Rat | 560 mg/kg |
| * Estimates for product may b | e based on additional component data not s | hown. |
| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. | |
| Serious eye damage/eye | Direct contact with eyes may cause temporary irritation. | |
| 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 | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. | |
| 2-Butoxyethanol (CAS 11 | Evaluation of Carcinogenicity 11-76-2) 3 Not clas ed Substances (29 CFR 1910.1001-1050) | sifiable as to carcinogenicity to humans. |
| Reproductive toxicity | This product is not expected to cause rep | roductive or developmental effects |
| Specific target organ toxicity - | This product is not expected to cause reproductive or developmental effects. Not classified. | |
| single exposure | NOT Classified. | |
| Specific target organ toxicity - repeated exposure | Not classified. | |
| Aspiration hazard | Not an aspiration hazard. | |
| Chronic effects | May be harmful if absorbed through skin. Prolonged inhalation may be harmful. | |
| | 2-Butoxy ethanol may be absorbed throug prolonged. These effects have not been of | h the skin in toxic amounts if contact is repeated and observed in humans. |
| 12. Ecological information | ı | |
| Ecotoxicity | | entally hazardous. However, this does not exclude the |
| possibility that large or frequent spills can have a harmful or damaging effect | | |
| Components | Species | Test Results |
| 2-Butoxyethanol (CAS 111-76 Aquatic | 5-2) | |
| - | LC50 Inland silverside (Menidia | beryllina) 1250 mg/l, 96 hours |
| * Estimates for product may b | e based on additional component data not s | hown. |
| Persistence and degradability | No data is available on the degradability of | of this product. |
| Bioaccumulative potential | | |
| Partition coefficient n-octar 2-Butoxyethanol | nol / water (log Kow) 0.83 | |
| Mobility in coll | No data available | |

No data available.

Mobility in soil

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

| 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.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information

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

| | | Standard, 29 CFR 1910.1200 |). | | |
|---|--|--|--------------------|----------|--|
| | TSCA Section 12(b) Export N | lotification (40 CFR 707, Sub | pt. D) | | |
| | Not regulated. | | | | |
| | CERCLA Hazardous Substance List (40 CFR 302.4) | | | | |
| | 2-Butoxyethanol (CAS 11 | , | Listed. | | |
| | SARA 304 Emergency release notification | | | | |
| | Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) | | | | |
| | Not listed. | 1 Substances (29 CFR 1910.1 | 001-1050) | | |
| • | | | | | |
| Superfund Amendments and Reauthorization Act of 1986 (SARA) | | | | | |
| | Hazard categories | Immediate Hazard - No Delayed Hazard - No | | | |
| | | Fire Hazard - No | | | |
| | | Pressure Hazard - No | | | |
| | | Reactivity Hazard - No | | | |
| | SARA 302 Extremely hazard | ous substance | | | |
| | Not listed. | | | | |
| | SARA 311/312 Hazardous | No | | | |
| | chemical | | | | |
| | SARA 313 (TRI reporting) | | | | |
| | Chemical name | | CAS number | % by wt. | |
| | 2-Butoxyethanol | | 111-76-2 | 3 - < 5 | |
| Othe | er federal regulations | | | | |
| | Clean Air Act (CAA) Section | 112 Hazardous Air Pollutant | s (HAPs) List | | |
| | Not regulated. | | | | |
| | Clean Air Act (CAA) Section | 112(r) Accidental Release Pr | evention (40 CFR 6 | 8.130) | |
| | 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-Butoxyethanol (CAS 111-76-2)
- US. Massachusetts RTK Substance List
 - 2-Butoxyethanol (CAS 111-76-2)
- US. New Jersey Worker and Community Right-to-Know Act

2-Butoxyethanol (CAS 111-76-2)

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

2-Butoxyethanol (CAS 111-76-2)

US. Rhode Island RTK

2-Butoxyethanol (CAS 111-76-2)

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) | 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

| Issue date | 07-08-2015 |
|---------------|--|
| Version # | 01 |
| HMIS® ratings | Health: 0 Flammability: 0 Physical hazard: 0 |
| NFPA ratings | Health: 0 Flammability: 0 Instability: 0 |
| NFPA ratings | 000 |
| Disclaimer | The information provided in this Safety |

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.