

## MATERIAL SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION

**Product identifier** : BRAKE FLUID DOT 4

**Product Use** : Brake fluid

**Chemical Family** : Glycol mixture.

**Manufacturer part no.** : M4512C

**Supplier's name and address:**

**Radiator Specialty Co., of Canada**

1711 Aimco Blvd.  
Mississauga, ON, Canada  
L4W 1H7

**Manufacturer's name and address:**

Refer to Supplier

**Information Telephone #** : (905) 625-9117 (Monday - Friday, 8 AM - 4 PM)

**24 Hr. Emergency Tel #** : 613-996-6666 (CANUTEC)

### SECTION 2 - HAZARDS IDENTIFICATION

**Classification** : WHMIS information: This product is packaged and sold as a consumer product. The Hazardous Products Act (HPA) does not apply to consumer products [Hazardous Products Act Section 12(j)].

For informational purposes, this product would have the following WHMIS classification:  
Class D2B (Materials Causing Other Toxic Effects, Toxic Material).

**Emergency Overview** : Yellow liquid. Slight ethereal odour.

Caution! May be harmful if inhaled. May be harmful if swallowed. Causes eye irritation. May cause respiratory irritation.

### POTENTIAL HEALTH EFFECTS:

#### Signs and symptoms of short-term (acute) exposure

*Inhalation* : If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract.

*Skin* : May cause mild skin irritation.

*Eyes* : May cause moderate to severe irritation.

*Ingestion* : May cause irritation of mouth, throat, and stomach. May cause nausea, stomach pain and vomiting.

#### Effects of long-term (chronic) exposure

: Prolonged overexposure may cause liver and kidney effects.

**Carcinogenic status** : See TOXICOLOGICAL INFORMATION, Section 11.

**Additional health hazards** : See TOXICOLOGICAL INFORMATION, Section 11.

#### Potential environmental effects

: See ECOLOGICAL INFORMATION, Section 12.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Ingredients</u>                               | <u>CAS #</u> | <u>Wt. %</u>  |
|--|--------------|---------------|
| Triethylene glycol monomethyl ether borate ester | 30989-05-0   | 15.00 - 40.00 |
| Triethylene glycol monomethyl ether              | 112-35-6     | 10.00 - 30.00 |
| Polyethylene glycol monomethyl ether             | 9004-74-4    | 10.00 - 30.00 |
| Triethylene glycol monobutyl ether               | 143-22-6     | 8.00 - 18.00  |
| Polyalkylene glycol monobutyl ether              | 9004-77-7    | 7.00 - 13.00  |

|                      |           |              |
|----------------------|-----------|--------------|
| Tetraethylene glycol | 112-60-7  | 0.00 - 10.00 |
| Triethylene glycol   | 112-27-6  | 0.00 - 5.00  |
| Pentaethylene glycol | 4792-15-8 | 0.00 - 5.00  |
| Diisopropanolamine   | 110-97-4  | 0.00 - 1.50  |
| sodium hydroxide     | 1310-73-2 | 0.00 - 1.00  |

Note: This product is packaged and sold as a consumer product. The Hazardous Products Act (HPA) does not apply to consumer products [Hazardous Products Act Section 12(j)].

#### SECTION 4 - FIRST AID MEASURES

- Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. If irritation persists, seek prompt medical attention.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Wash exposed area thoroughly with soap and water for at least 15 minutes. If irritation persists, seek prompt medical attention.
- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes. Seek immediate medical attention/advice.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist.
- Notes For Physician** : Treat symptomatically.

#### SECTION 5 - FIRE FIGHTING MEASURES

##### Fire hazards/conditions of flammability

- : Not flammable under normal conditions of use. However, may ignite if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Vapours are heavier than air and collect in confined and low-lying areas.

##### Oxidizing properties

- : None known.

##### Explosion data: Sensitivity to mechanical impact / static discharge

- : Not expected to be sensitive to mechanical impact or static discharge.

##### Suitable extinguishing media

- : Dry chemical, alcohol foam, carbon dioxide, or water spray.

##### Special fire-fighting procedures/equipment

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

##### Hazardous combustion products

- : Carbon oxides; Nitrogen oxides (NOx); formaldehyde; Other unidentified organic compounds.

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions** : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.
- Spill response/cleanup** : Ventilate area of release. Remove all sources of ignition. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.
- Prohibited materials** : Do not use combustible absorbents, such as sawdust.

#### SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Use in a well-ventilated area. Wear suitable protective equipment during handling. Do not breathe vapours or spray mist. Do not ingest. Avoid contact with skin, eyes and clothing. Keep away from heat and flame. Avoid contact with incompatible materials. Wash thoroughly after handling. Keep containers closed when not in use.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Keep away from direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.
- Incompatible materials** : Strong oxidizing agents; Acids; Bases.

**Special packaging materials** : Always keep in containers made of the same materials as the supply container.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

| <u>Exposure Limits</u>                           |                               |             |                     |             |
|--|-------------------------------|-------------|---------------------|-------------|
| <u>Ingredients</u>                               | <u>ACGIH TLV</u>              |             | <u>OSHA PEL</u>     |             |
|  | <u>TWA</u>                    | <u>STEL</u> | <u>PEL</u>          | <u>STEL</u> |
| Triethylene glycol monomethyl ether borate ester | N/Av                          | N/Av        | N/Av                | N/Av        |
| Triethylene glycol monomethyl ether              | N/Av                          | N/Av        | N/Av                | N/Av        |
| Polyethylene glycol monomethyl ether             | N/Av                          | N/Av        | N/Av                | N/Av        |
| Triethylene glycol monobutyl ether               | N/Av                          | N/Av        | N/Av                | N/Av        |
| Polyalkylene glycol monobutyl ether              | N/Av                          | N/Av        | N/Av                | N/Av        |
| Tetraethylene glycol                             | N/Av                          | N/Av        | N/Av                | N/Av        |
| Triethylene glycol                               | N/Av                          | N/Av        | N/Av                | N/Av        |
| Pentaethylene glycol                             | N/Av                          | N/Av        | N/Av                | N/Av        |
| Diisopropanolamine                               | N/Av                          | N/Av        | N/Av                | N/Av        |
| sodium hydroxide                                 | 2 mg/m <sup>3</sup> (Ceiling) | N/Av        | 2 mg/m <sup>3</sup> | N/Av        |

### Ventilation and engineering measures

- : Use in a well-ventilated area. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

### Respiratory protection

- : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Advice should be sought from respiratory protection specialists.

### Skin protection

- : Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers. Depending on conditions of use, an impervious apron should be worn.

### Eye / face protection

- : Chemical splash goggles are recommended.

### Other protective equipment

- : An eyewash station and safety shower should be made available in the immediate working area.

### General hygiene considerations

- : Do not ingest. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse. Wash hands thoroughly after using this product, and before eating, drinking or smoking.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

|   |                      |   |                  |
|---|----------------------|---|------------------|
| <b>Physical state</b>                         | : liquid             | <b>Appearance</b>                             | : Yellow liquid. |
| <b>Odour</b>                                  | : Ammonia odour.     | <b>Odour threshold</b>                        | : N/Av           |
| <b>pH</b>                                     | : 7.7 (estimated)    |   |                  |
| <b>Boiling point</b>                          | : 282°C @ 760 mmHg   | <b>Specific gravity</b>                       | : 1.05           |
| <b>Melting/Freezing point</b>                 | : N/Av               | <b>Coefficient of water/oil distribution</b>  | : N/Av           |
|   |                      | <b>Solubility in water</b>                    | : Soluble        |
| <b>Vapour pressure (mmHg @ 20° C / 68° F)</b> | : < 0.01 (estimated) | <b>Evaporation rate (n-Butyl acetate = 1)</b> | : N/Av           |
| <b>Vapour density (Air = 1)</b>               | : > 10 (estimated)   | <b>Volatiles (% by weight)</b>                | : N/Av           |
| <b>Volatile organic Compounds (VOC's)</b>     | : N/Av               |   |                  |
| <b>Flash point</b>                            | : 132.2°C            | <b>Auto-ignition temperature</b>              | : Not available. |
| <b>Flash point Method</b>                     | : closed cup         | <b>Upper flammable limit (% by vol.)</b>      | : N/Av           |
| <b>Lower flammable limit (% by vol.)</b>      | : N/Av               |   |                  |
| <b>Flame Projection Length</b>                | : N/Av               | <b>Flashback observed</b>                     | : N/Av           |

Absolute pressure of container

: N/Av

Viscosity

: N/Av

## General Information

: No additional information.

**Section 10: STABILITY AND REACTIVITY**

**Stability and reactivity** : Stable under the recommended storage and handling conditions prescribed. May form explosive peroxides during prolonged exposure to air and heat.

**Hazardous polymerization** : Hazardous polymerization does not occur.

**Conditions to avoid** : Avoid heat and open flame. Keep away from direct sunlight. Do not use in areas without adequate ventilation.

**Materials To Avoid And Incompatibility**

: Strong oxidizing agents; Strong acids; Strong bases.

**Hazardous decomposition products**

: Peroxides Refer to Section 5 for additional 'Hazardous combustion products'.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Target organs** : Eyes, skin, respiratory system, digestive system, central nervous system. Liver; Kidneys

**Routes of exposure** : *Inhalation:* YES *Skin Absorption:* YES *Skin & Eyes:* YES *Ingestion:* YES

**Irritancy** : Mild skin irritant.. Moderate to severe eye irritant.

**Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

| <u>Ingredients</u>                               | <u>LC<sub>50</sub> (4hr)</u>                  | <u>LD<sub>50</sub></u> |                         |
|--|---|------------------------|-------------------------|
|  | <u>inh, rat</u>                               | <u>(Oral, rat)</u>     | <u>(Rabbit, dermal)</u> |
| Triethylene glycol monomethyl ether borate ester | N/Av  | > 5000 mg/kg           | > 2000 mg/kg            |
| Triethylene glycol monomethyl ether              | N/Av  | 11 800 mg/kg           | 7400 mg/kg              |
| Polyethylene glycol monomethyl ether             | N/Av  | > 22 mL/kg             | > 20 mL/kg              |
| Triethylene glycol monobutyl ether               | N/Av  | 5300 mg/kg             | > 2000 mg/kg            |
| Polyalkylene glycol monobutyl ether              | N/Av  | > 2000 mg/kg           | N/Av                    |
| Tetraethylene glycol                             | > 5 mg/L (aerosol) (No mortality)             | 34 700 mg/kg           | 22 600 mg/kg            |
| Triethylene glycol                               | > 5.0 mg/L (aerosol) (No mortality)           | 9500 - 22 060 mg/kg    | > 18 000 mg/kg          |
| Pentaethylene glycol                             | N/Av  | > 16 000 mg/kg         | N/Av                    |
| Diisopropanolamine                               | > 2.069 mg/L (aerosol) (No mortality) (mouse) | > 2000 - 3980 mg/kg    | 8000 mg/kg              |
| sodium hydroxide                                 | N/Av  | N/Av                   | N/Av                    |

**Carcinogenic status** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

**Reproductive effects** : Not expected to have other reproductive effects.

**Teratogenicity** : Not expected to be a teratogen.

**Mutagenicity** : Not expected to be mutagenic in humans.

**Epidemiology** : None known or reported by the manufacturer.

**Sensitization to material** : Not expected to be a skin or respiratory sensitizer.

**Synergistic materials** : None known or reported by the manufacturer.

**other important hazards** : None known or reported by the manufacturer.

**Conditions aggravated by overexposure**

: Pre-existing skin, eye and respiratory disorders.

**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity** : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

See the following tables for individual ingredient ecotoxicity data.

**Ecotoxicity data:**

| <b><u>Ingredients</u></b>                        | <b>CAS No</b> | <b>Toxicity to Fish</b>                  |  |                 |
|--|---------------|--|--|-----------------|
|  |               | <b>LC50 / 96h</b>                        | <b>NOEC / 21 day</b>                                     | <b>M Factor</b> |
| Triethylene glycol monomethyl ether borate ester | 30989-05-0    | > 222 mg/L (Rainbow trout) (Read-across) | N/Av   | None.           |
| Triethylene glycol monomethyl ether              | 112-35-6      | > 10 000 mg/L (Fathead minnow)           | N/Av   | None.           |
| Polyethylene glycol monomethyl ether             | 9004-74-4     | N/Av                                     | N/Av   | None.           |
| Triethylene glycol monobutyl ether               | 143-22-6      | 2400 mg/L                                | N/Av   | None.           |
| Polyalkylene glycol monobutyl ether              | 9004-77-7     | > 1800 mg/L (Turbot)                     | N/Av   | None.           |
| Tetraethylene glycol                             | 112-60-7      | > 10 000 mg/L (Fathead minnow)           | N/Av   | None.           |
| Triethylene glycol                               | 112-27-6      | 69 800 mg/L (Fathead minnow)             | > 1500 mg/L/28-day Atlantic silverside (Menidia menidia) | None.           |
| Pentaethylene glycol                             | 4792-15-8     | > 50 000 mg/L (Fathead minnow)           | N/Av   | None.           |
| Diisopropanolamine                               | 110-97-4      | ≥ 1000 mg/L, ≤ 2200 mg/L (Zebra fish)    | N/Av   | None.           |
| sodium hydroxide                                 | 1310-73-2     | 125 mg/L (Mosquito fish)                 | N/Av   | None.           |

| <b><u>Ingredients</u></b>                        | <b>CAS No</b> | <b>Toxicity to Daphnia</b>       |                      |                 |
|--|---------------|----------------------------------|----------------------|-----------------|
|  |               | <b>EC50 / 48h</b>                | <b>NOEC / 21 day</b> | <b>M Factor</b> |
| Triethylene glycol monomethyl ether borate ester | 30989-05-0    | > 500 mg/L (Daphnia magna)       | N/Av                 | None.           |
| Triethylene glycol monomethyl ether              | 112-35-6      | > 10 000 mg/L (Daphnia magna)    | N/Av                 | None.           |
| Polyethylene glycol monomethyl ether             | 9004-74-4     | N/Av                             | N/Av                 | None.           |
| Triethylene glycol monobutyl ether               | 143-22-6      | 2210 mg/L (Daphnia magna)        | N/Av                 | None.           |
| Polyalkylene glycol monobutyl ether              | 9004-77-7     | 4800 mg/L (Daphnia magna) (QSAR) | N/Av                 | None.           |
| Tetraethylene glycol                             | 112-60-7      | 7800 mg/L (Daphnia magna)        | N/Av                 | None.           |
| Triethylene glycol                               | 112-27-6      | 39 000 mg/L (Daphnia magna)      | > 15 000 mg/L        | None.           |
| Pentaethylene glycol                             | 4792-15-8     | > 20 000 mg/L (Daphnia magna)    | N/Av                 | None.           |
| Diisopropanolamine                               | 110-97-4      | 277.7 mg/L (Daphnia magna)       | N/Av                 | None.           |
| sodium hydroxide                                 | 1310-73-2     | 40.4 mg/L (Daphnia magna)        | N/Av                 | None.           |

| <u>Ingredients</u>                               | CAS No     | <b>Toxicity to Algae</b>            |                          |                 |
|--|------------|-------------------------------------|--------------------------|-----------------|
|  |            | <b>EC50 / 96h or 72h</b>            | <b>NOEC / 96h or 72h</b> | <b>M Factor</b> |
| Triethylene glycol monomethyl ether borate ester | 30989-05-0 | > 500 mg/L/72hr (Green algae)       | N/Av                     | None.           |
| Triethylene glycol monomethyl ether              | 112-35-6   | > 500 mg/L/96hr (Green algae)       | N/Av                     | None.           |
| Polyethylene glycol monomethyl ether             | 9004-74-4  | N/Av                                | N/Av                     | None.           |
| Triethylene glycol monobutyl ether               | 143-22-6   | > 500 mg/L/72hr (Green algae)       | N/Av                     | None.           |
| Polyalkylene glycol monobutyl ether              | 9004-77-7  | 391 mg/L/72hr (Skeletonea costatum) | N/Av                     | None.           |
| Tetraethylene glycol                             | 112-60-7   | > 100 mg/L/72hr (Diatom)            | 100 mg/L/72hr (Diatom)   | None.           |
| Triethylene glycol                               | 112-27-6   | > 100 mg/L (Green algae)            | N/Av                     | None.           |
| Pentaethylene glycol                             | 4792-15-8  | N/Av                                | N/Av                     | None.           |
| Diisopropanolamine                               | 110-97-4   | 270 mg/L/72hr (Green algae)         | 125mg/L (Green algae)    | None.           |
| sodium hydroxide                                 | 1310-73-2  | N/Av                                | N/Av                     | None.           |

**Mobility** : No data is available on the product itself.

**Persistence** : No data is available on the product itself.  
 Contains the following chemicals which are not readily biodegradable: sodium hydroxide.  
 Contains the following chemicals which are considered to be inherently biodegradable: Tetraethylene glycol; Pentaethylene glycol.  
 The following ingredients are considered to be readily biodegradable: Triethylene glycol monomethyl ether borate ester; Triethylene glycol monomethyl ether; Polyethylene glycol monomethyl ether; Triethylene glycol monobutyl ether; Polyalkylene glycol monobutyl ether; Triethylene glycol; Diisopropanolamine.

**Bioaccumulation potential** : No data is available on the product itself. See the following data for ingredient information.

| <u>Components</u>   | <u>Partition coefficient n-octanol/water (log Kow)</u> | <u>Bioconcentration factor (BCF)</u> |
|---|--|--------------------------------------|
| Triethylene glycol monomethyl ether borate ester (CAS 30989-05-0) | - 4.37   | N/Av                                 |
| Triethylene glycol monomethyl ether (CAS 112-35-6)                | - 1.46 (calculated)                                    | N/Av                                 |
| Triethylene glycol monobutyl ether (CAS 143-22-6)                 | 0.51   | N/Av                                 |
| Polyalkylene glycol monobutyl ether (CAS 9004-77-7)               | 0.436  | N/Av                                 |
| Tetraethylene glycol (CAS 112-60-7)                               | - 2.02 (estimated)                                     | 3 (estimated)                        |
| Triethylene glycol (CAS 112-27-6)                                 | - 1.7 (estimated)                                      | 3.162 (estimated)                    |
| Pentaethylene glycol (CAS 4792-15-8)                              | - 2.3  | N/Av                                 |
| Diisopropanolamine (CAS 110-97-4)                                 | - 0.79   | 3.16 (estimated)                     |

#### Other Adverse Environmental effects

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

### SECTION 13 - DISPOSAL CONSIDERATIONS

**Handling for Disposal** : Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

**Methods of Disposal** : Dispose of in accordance with federal, provincial and local hazardous waste laws.

**SECTION 14: TRANSPORT INFORMATION**

| Regulatory Information            | UN Number | Shipping Name  | Class         | Packing Group | Label   |
|-----------------------------------|-----------|----------------|---------------|---------------|---|
| TDG                               | None      | Not regulated. | Not regulated | None          |  |
| <b>TDG Additional information</b> | None.     |                |               |               |   |

**SECTION 15 - REGULATORY INFORMATION****Labelling:**

This product is packaged and sold as a consumer product. The Hazardous Products Act (HPA) does not apply to consumer products [Hazardous Products Act Section 12(j)]. As such, this product does not require a WHMIS Supplier label.

**Canadian Information:**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

**This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.**

**US Federal Information:**

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

**SECTION 16 - OTHER INFORMATION****Legend**

: ACGIH: American Conference of Governmental Industrial Hygienists  
 CAS: Chemical Abstract Services  
 CNS: Central Nervous System  
 HSDB: Hazardous Substances Data Bank  
 IARC: International Agency for Research on Cancer  
 Inh: Inhalation  
 LC: Lethal Concentration  
 LD: Lethal Dose  
 MSHA: Mine Safety and Health Administration  
 N/Ap: Not Applicable  
 N/Av: Not Available  
 NIOSH: National Institute of Occupational Safety and Health  
 NOEC: No observable effect concentration  
 NTP: National Toxicology Program  
 OECD: Organisation for Economic Co-operation and Development  
 OSHA: Occupational Safety and Health Administration  
 PEL: Permissible exposure limit  
 RTECS: Registry of Toxic Effects of Chemical Substances  
 STEL: Short Term Exposure Limit  
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
 TLV: Threshold Limit Values  
 TWA: Time Weighted Average  
 WHMIS: Workplace Hazardous Materials Identification System

**References**

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016.  
 2. International Agency for Research on Cancer Monographs, searched 2016.  
 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2016 (Chempendium, HSDB and RTECs).  
 4. Material Safety Data Sheets from manufacturer.  
 5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2016.

|   |  |
|---|--|
| <b><u>Prepared for:</u></b><br>Radiator Specialty Co. of Canada<br>1711 Aimco Blvd.<br>Mississauga, ON, Canada, L4W 1H7<br>Telephone: 905-625-9117 (Mon. - Fri., 8 AM - 4 PM)<br>Please direct all enquiries to Radiator Specialty. |  |
| <b><u>Prepared by:</u></b><br>ICC The Compliance Center Inc.<br><a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a>   |  |

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**MSDS Preparation Date (mm/dd/yyyy)**

: 08/09/2007

**MSDS Revision Date (mm/dd/yyyy)**

: 07/25/2016

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: 5

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12. ECOLOGICAL INFORMATION.**END OF DOCUMENT**