

## 1. Identification

**Product identifier** Tite Seal Instant Tire Repair

### Other means of identification

**SDS number** M1118/6

**Part No.** M1118/6, M1118L/6

**Tariff code** 3506.91.0000

**Recommended use** Tire Repair

**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

|                              |                                                    |                                         |
|------------------------------|----------------------------------------------------|-----------------------------------------|
| <b>Physical hazards</b>      | Flammable aerosols                                 | Not applicable                          |
|                              | Gases under pressure                               | Refrigerated liquefied gas              |
| <b>Health hazards</b>        | Acute toxicity, oral                               | Category 4                              |
|                              | Acute toxicity, dermal                             | Category 4                              |
|                              | Acute toxicity, inhalation                         | Category 4                              |
|                              | Skin corrosion/irritation                          | Category 2                              |
|                              | Serious eye damage/eye irritation                  | Category 2A                             |
|                              | Specific target organ toxicity, single exposure    | Category 3 respiratory tract irritation |
|                              | Specific target organ toxicity, repeated exposure  | Category 1                              |
| <b>Environmental hazards</b> | Hazardous to the aquatic environment, acute hazard | Category 3                              |
| <b>OSHA defined hazards</b>  | Not classified.                                    |                                         |

### Label elements



**Signal word** Danger

**Hazard statement** Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Contains gas under pressure; may explode if heated.

### Precautionary statement

#### Prevention

Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing. Wear eye/face protection. Wear cold insulating gloves/face shield/eye protection.

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Response</b>                                  | If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Get immediate medical advice/attention. Rinse mouth. If skin irritation occurs: Get medical advice/attention. Thaw frosted parts with lukewarm water. Do not rub affected area. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. |
| <b>Storage</b>                                   | Store in a well-ventilated place. Keep container tightly closed. Store locked up.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Disposal</b>                                  | Dispose of contents/container in accordance with local/regional/national/international regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Supplemental information</b>                  | 28.35% of the mixture consists of component(s) of unknown acute oral toxicity. 47.39% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name                            | Common name and synonyms | CAS number | %         |
|------------------------------------------|--------------------------|------------|-----------|
| R 134a                                   |                          | 811-97-2   | 20 - < 30 |
| 2-Butoxyethanol                          |                          | 111-76-2   | 10 - < 20 |
| ETHYLENE GLYCOL                          |                          | 107-21-1   | 3 - < 5   |
| AMMONIA                                  |                          | 1336-21-6  | < 1       |
| Other components below reportable levels |                          |            | 50 - < 60 |

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

### 4. First-aid measures

|                                                                               |                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                                                             | 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.                                                                                                          |
| <b>Skin contact</b>                                                           | In case of contact with liquefied gas, thaw frosted parts with lukewarm water. Do not rub affected area. Remove contaminated clothing. Wash with plenty of soap and water. Get medical attention immediately. Wash contaminated clothing before reuse.                                                 |
| <b>Eye contact</b>                                                            | 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.                                                                                                                            |
| <b>Ingestion</b>                                                              | Not likely, due to the form of the product. 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.                                                                                                        |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Contact with liquefied gas might cause frostbites, in some cases with tissue damage. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. May cause redness and pain. Prolonged exposure may cause chronic effects. |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.                                                                                                                                                               |
| <b>General information</b>                                                    | If you feel unwell, seek medical advice (show the label where possible). 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

|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                                  | Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).                                                                                                                                                                                                                                                                                                           |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.                                                                                                                                                                                                                                                                                                                  |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.                                                                                                                                                                                                                                                                                                                                   |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.                                                                                                                                                                                                                                                                                           |
| <b>Fire fighting equipment/instructions</b>                          | In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. |
| <b>Specific methods</b>                                              | Use standard firefighting procedures and consider the hazards of other involved materials.                                                                                                                                                                                                                                                                                              |
| <b>General fire hazards</b>                                          | Contents under pressure. Pressurized container may explode 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. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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

Refer to attached safety data sheets and/or instructions for use. 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. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. 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. For waste disposal, see section 13 of the SDS.

### Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

## 7. Handling and storage

### Precautions for safe handling

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. Ground and bond containers when transferring material. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Cold burns may occur during filling operations. Containers and delivery lines may become cold enough to present cold burn hazard. Never allow any unprotected part of the body to touch uninsulated pipes or vessels that contain cryogenic liquids. Prevent entrapment of liquid in closed systems or piping without pressure relief devices. Some materials may become brittle at low temperatures and will easily fracture. The use of hydrocarbon fuel in an area without adequate ventilation may result in hazardous levels of incomplete combustion products (e.g. carbon monoxide, oxides of sulfur and nitrogen, benzene and other hydrocarbons and/or dangerously low oxygen levels. Do not re-use empty containers. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Store locked up. Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. 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                     | Type | Value                        |
|--------------------------------|------|------------------------------|
| 2-Butoxyethanol (CAS 111-76-2) | PEL  | 240 mg/m3                    |
| AMMONIA (CAS 1336-21-6)        | PEL  | 50 ppm<br>35 mg/m3<br>50 ppm |

**US. ACGIH Threshold Limit Values**

| Components                     | Type           | Value               | Form     |
|--------------------------------|----------------|---------------------|----------|
| 2-Butoxyethanol (CAS 111-76-2) | TWA            | 20 ppm              | Aerosol. |
| AMMONIA (CAS 1336-21-6)        | STEL           | 35 ppm              |          |
| ETHYLENE GLYCOL (CAS 107-21-1) | TWA<br>Ceiling | 25 ppm<br>100 mg/m3 |          |

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

| Components                     | Type | Value    |
|--------------------------------|------|----------|
| 2-Butoxyethanol (CAS 111-76-2) | TWA  | 24 mg/m3 |
| AMMONIA (CAS 1336-21-6)        | STEL | 5 ppm    |
|                                |      | 27 mg/m3 |
|                                | TWA  | 35 ppm   |
|                                |      | 18 mg/m3 |
|                                |      | 25 ppm   |

**US. Workplace Environmental Exposure Level (WEEL) Guides**

| Components            | Type | Value                  |
|-----------------------|------|------------------------|
| R 134a (CAS 811-97-2) | TWA  | 4240 mg/m3<br>1000 ppm |

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

| Components                     | Value    | Determinant                              | Specimen            | Sampling Time |
|--------------------------------|----------|------------------------------------------|---------------------|---------------|
| 2-Butoxyethanol (CAS 111-76-2) | 200 mg/g | Butoxyacetic acid (BAA), with hydrolysis | Creatinine in urine | *             |

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

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

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

2-Butoxyethanol (CAS 111-76-2)

Skin designation applies.

**US - Tennessee OELs: Skin designation**

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

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

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Face-shield. Chemical respirator with organic vapor cartridge and full facepiece.

**Skin protection****Hand protection**

Wear cold insulating gloves. Suitable gloves can be recommended by the glove supplier.

**Other**

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Always wear thermal protective clothing when handling refrigerated/cryogenic liquids.

**Respiratory protection**

Chemical respirator with organic vapor cartridge and full facepiece.

**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**

|                                                     |                                |
|-----------------------------------------------------|--------------------------------|
| <b>Appearance</b>                                   | Liquid.                        |
| <b>Physical state</b>                               | Liquid.                        |
| <b>Form</b>                                         | Aerosol.                       |
| <b>Color</b>                                        | Opaque. Milky.                 |
| <b>Odor</b>                                         | Ammonia                        |
| <b>Odor threshold</b>                               | Not available.                 |
| <b>pH</b>                                           | 10.6                           |
| <b>Melting point/freezing point</b>                 | -149.8 °F (-101 °C) estimated  |
| <b>Initial boiling point and boiling range</b>      | 335.12 °F (168.4 °C) estimated |
| <b>Flash point</b>                                  | None                           |
| <b>Evaporation rate</b>                             | Not available.                 |
| <b>Flammability (solid, gas)</b>                    | Not applicable.                |
| <b>Upper/lower flammability or explosive limits</b> |                                |
| <b>Flammability limit - lower (%)</b>               | Not available.                 |
| <b>Flammability limit - upper (%)</b>               | Not available.                 |
| <b>Explosive limit - lower (%)</b>                  | Not available.                 |
| <b>Explosive limit - upper (%)</b>                  | Not available.                 |
| <b>Vapor pressure</b>                               | 1693.44 hPa estimated          |
| <b>Vapor density</b>                                | Not available.                 |
| <b>Relative density</b>                             | Not available.                 |
| <b>Solubility(ies)</b>                              |                                |
| <b>Solubility (water)</b>                           | Soluble                        |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                 |
| <b>Auto-ignition temperature</b>                    | 460.4 °F (238 °C) estimated    |
| <b>Decomposition temperature</b>                    | Not available.                 |
| <b>Viscosity</b>                                    | Not available.                 |
| <b>Other information</b>                            |                                |
| <b>Density</b>                                      | 8.34 lbs/gal estimated         |
| <b>Explosive properties</b>                         | Not explosive.                 |
| <b>Heat of combustion (NFPA 30B)</b>                | 5.23 kJ/g estimated            |
| <b>Oxidizing properties</b>                         | Not oxidizing.                 |
| <b>Percent volatile</b>                             | 70.78 % estimated              |
| <b>Specific gravity</b>                             | 1 estimated                    |
| <b>VOC (Weight %)</b>                               | 15.64 % estimated              |

**10. Stability and reactivity**

|                                           |                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.                                                   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.                                                          |
| <b>Incompatible materials</b>             | Strong oxidizing agents.                                                                      |

**Hazardous decomposition products**

No hazardous decomposition products are known.

**11. Toxicological information**

**Information on likely routes of exposure**

|                     |                                                                                                                                                                                                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation.                                                                                                                                                                                                       |
| <b>Skin contact</b> | Harmful in contact with skin. Contact with liquefied gas might cause frostbites, in some cases with tissue damage. Causes skin irritation.<br><br>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** Contact with liquefied gas might cause frostbites, in some cases with tissue damage. Causes serious eye irritation.

**Ingestion** Harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics** Contact with liquefied gas might cause frostbites, in some cases with tissue damage. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. May cause redness and pain.

**Information on toxicological effects**

**Acute toxicity** Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed. May cause respiratory irritation.

| Components                     | Species    | Test Results     |
|--------------------------------|------------|------------------|
| 2-Butoxyethanol (CAS 111-76-2) |            |                  |
| <b>Acute</b>                   |            |                  |
| <b>Dermal</b>                  |            |                  |
| LD50                           | Rabbit     | 400 mg/kg        |
| <b>Inhalation</b>              |            |                  |
| LC50                           | Mouse      | 700 ppm, 7 Hours |
|                                | Rat        | 450 ppm, 4 Hours |
| <b>Oral</b>                    |            |                  |
| LD50                           | Guinea pig | 1.2 g/kg         |
|                                | Mouse      | 1.2 g/kg         |
|                                | Rabbit     | 0.32 g/kg        |
|                                | Rat        | 560 mg/kg        |
| AMMONIA (CAS 1336-21-6)        |            |                  |
| <b>Acute</b>                   |            |                  |
| <b>Oral</b>                    |            |                  |
| LD50                           | Rat        | 350 mg/kg        |
| ETHYLENE GLYCOL (CAS 107-21-1) |            |                  |
| <b>Acute</b>                   |            |                  |
| <b>Dermal</b>                  |            |                  |
| LD50                           | Rabbit     | 9530 mg/kg       |
| <b>Oral</b>                    |            |                  |
| LD50                           | Cat        | 1650 mg/kg       |
|                                | Dog        | 5500 mg/kg       |
|                                | Guinea pig | 8.2 g/kg         |
|                                | Mouse      | 14.6 g/kg        |
|                                | Rat        | 5.89 g/kg        |

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

**Skin corrosion/irritation** Contact with liquefied gas might cause frostbites, in some cases with tissue damage.

**Serious eye damage/eye irritation** Contact with liquefied gas might cause frostbites, in some cases with tissue damage.

## 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.

### IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2)

3 Not classifiable as to carcinogenicity to humans.

### 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** May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Causes damage to organs through prolonged or repeated exposure. May be harmful if absorbed through skin. Prolonged inhalation may be harmful.

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.

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life.

| Components                     |      | Species                                 | Test Results        |
|--------------------------------|------|-----------------------------------------|---------------------|
| 2-Butoxyethanol (CAS 111-76-2) |      |                                         |                     |
| <b>Aquatic</b>                 |      |                                         |                     |
| Fish                           | LC50 | Inland silverside (Menidia beryllina)   | 1250 mg/l, 96 hours |
| AMMONIA (CAS 1336-21-6)        |      |                                         |                     |
| <b>Aquatic</b>                 |      |                                         |                     |
| Fish                           | LC50 | Western mosquitofish (Gambusia affinis) | 15 mg/l, 96 hours   |
| ETHYLENE GLYCOL (CAS 107-21-1) |      |                                         |                     |
| <b>Aquatic</b>                 |      |                                         |                     |
| Fish                           | LC50 | Fathead minnow (Pimephales promelas)    | 8050 mg/l, 96 hours |

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

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

### Bioaccumulative potential

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

|                 |       |
|-----------------|-------|
| 2-Butoxyethanol | 0.83  |
| ETHYLENE GLYCOL | -1.36 |
| R 134a          | 1.274 |

**Mobility in soil** No data available.

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

## 13. Disposal considerations

**Disposal instructions** 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 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. Do not re-use empty containers.

**14. Transport information**

**DOT**

|                              |                                                                         |
|------------------------------|-------------------------------------------------------------------------|
| UN number                    | Not available.                                                          |
| UN proper shipping name      | Consumer Commodity                                                      |
| Transport hazard class(es)   |                                                                         |
| Class                        | ORM-D                                                                   |
| Subsidiary risk              | -                                                                       |
| Packing group                | Not applicable.                                                         |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Special provisions           | T50                                                                     |
| Packaging exceptions         | 306                                                                     |
| Packaging non bulk           | 304                                                                     |
| Packaging bulk               | 314, 315                                                                |

**IATA**

|                              |                                                                         |
|------------------------------|-------------------------------------------------------------------------|
| UN number                    | UN1950                                                                  |
| UN proper shipping name      | Aerosol, non-flammable                                                  |
| Transport hazard class(es)   |                                                                         |
| Class                        | 2.2                                                                     |
| Subsidiary risk              | -                                                                       |
| Packing group                | Not applicable.                                                         |
| Environmental hazards        | No.                                                                     |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Other information            |                                                                         |
| Passenger and cargo aircraft | Forbidden.                                                              |
| Cargo aircraft only          | Forbidden.                                                              |

**IMDG**

|                              |                                                                         |
|------------------------------|-------------------------------------------------------------------------|
| UN number                    | UN1950                                                                  |
| UN proper shipping name      | AEROSOLS                                                                |
| Transport hazard class(es)   |                                                                         |
| Class                        | 2.2                                                                     |
| Subsidiary risk              | -                                                                       |
| Packing group                | Not applicable.                                                         |
| Environmental hazards        |                                                                         |
| Marine pollutant             | No.                                                                     |
| EmS                          | F-D, S-U                                                                |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

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

**IATA; IMDG**



## General information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

## 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-Butoxyethanol (CAS 111-76-2) | Listed. |
| AMMONIA (CAS 1336-21-6)        | Listed. |
| ETHYLENE GLYCOL (CAS 107-21-1) | 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 - Yes  
Fire Hazard - No  
Pressure Hazard - Yes  
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-Butoxyethanol | 111-76-2   | 10 - < 20 |
| ETHYLENE GLYCOL | 107-21-1   | 3 - < 5   |
| AMMONIA         | 1336-21-6  | < 1       |

### Other federal regulations

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

ETHYLENE GLYCOL (CAS 107-21-1)

#### 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-Butoxyethanol (CAS 111-76-2)  
ETHYLENE GLYCOL (CAS 107-21-1)

#### US. Massachusetts RTK - Substance List

2-Butoxyethanol (CAS 111-76-2)  
AMMONIA (CAS 1336-21-6)  
ETHYLENE GLYCOL (CAS 107-21-1)

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

2-Butoxyethanol (CAS 111-76-2)  
AMMONIA (CAS 1336-21-6)  
ETHYLENE GLYCOL (CAS 107-21-1)

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

2-Butoxyethanol (CAS 111-76-2)  
AMMONIA (CAS 1336-21-6)  
ETHYLENE GLYCOL (CAS 107-21-1)

**US. Rhode Island RTK**

2-Butoxyethanol (CAS 111-76-2)  
AMMONIA (CAS 1336-21-6)  
ETHYLENE GLYCOL (CAS 107-21-1)

**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** 04-27-2015  
**Revision date** 12-16-2015  
**Version #** 05  
**HMIS® ratings** Health: 3\*  
Flammability: 1  
Physical hazard: 2

**NFPA ratings** Health: 3  
Flammability: 1  
Instability: 2

**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.

**Revision Information**

Hazard(s) identification: GHS Signal Words  
Fire-fighting measures: Fire fighting equipment/instructions  
Transport information: General information  
GHS: Classification