

1. Identification

| | | |
|---|---|----------------|
| Product identifier | Tite Seal Instant Tire Repair | |
| Other means of identification | | |
| SDS number | M11 series | |
| Part No. | M1108, M1114, M1118, M1128 | |
| Tariff code | 3506.91.0000 | |
| Recommended use | Tire Repair | |
| Recommended restrictions | None known. | |
| Manufacturer/Importer/Supplier/Distributor information | | |
| Manufacturer | | |
| Company name | Blumenthal Brands Integrated, LLC | |
| Address | 600 Radiator Road Indian Trail, NC 28079 | |
| Telephone | Customer Service | (704) 821-7643 |
| | Technical | (704) 821-7643 |
| Website | www.solvewithB.com | |
| E-mail | sds@solvewithB.com | |
| Emergency phone number | Poison Control (RMPDC) | (303) 623-5716 |
| | Poison Control (RMPDC) | (877) 740-5015 |

2. Hazard(s) identification

| | | |
|------------------------------|---|------------|
| Physical hazards | Aerosols | Category 3 |
| Health hazards | Specific target organ toxicity, repeated exposure | Category 2 |
| Environmental hazards | Not classified. | |
| OSHA defined hazards | Not classified. | |

Label elements



| | |
|--|--|
| Signal word | Warning |
| Hazard statement | Pressurized container: May burst if heated. May cause damage to organs through prolonged or repeated exposure. |
| Precautionary statement | |
| Prevention | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. |
| Response | Get medical advice/attention if you feel unwell. |
| Storage | Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information | NOTE: GHS Category 3 Non-flammable aerosol (version 7 - July 2017). |

NOTE: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The container label may not include the OSHA label elements listed in this document. Always carefully review the entire SDS and the product label prior to use in the workplace.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|--|--------------------------|------------|-----------|
| Water | | 7732-18-5 | 60 - < 70 |
| Trans-1,3,3,3-Tetrafluoroprop-1-ene | | 29118-24-9 | 20 - < 30 |
| Acrylic Polymer Dispersion | | | 1 - < 3 |
| Ethylene Glycol | | 107-21-1 | 1 - < 3 |
| Ammonium Hydroxide | | 1336-21-6 | < 0.2 |
| Cellulose | | Mixture | < 0.2 |
| Xanthan Gum | | 11138-66-2 | < 0.2 |
| Citric Acid | | 77-92-9 | < 0.1 |
| Oxalaldehyde | | 107-22-2 | < 0.1 |
| Other components below reportable levels | | | 1 - < 3 |

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

4. First-aid measures

| | |
|---|---|
| Inhalation | If symptoms develop move victim to fresh air. Get medical attention if symptoms persist. |
| 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 | In the unlikely event of swallowing contact a physician or poison control center. |
| Most important symptoms/effects, acute and delayed | Prolonged exposure may cause chronic effects. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. |
| General information | 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. |

5. Fire-fighting measures

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| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |
| Fire fighting equipment/instructions | 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. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes. |
| General fire hazards | Contents under pressure. |

6. Accidental release measures

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| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. 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. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. 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 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. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Level 1 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

| Components | Type | Value |
|------------------------------------|------|----------|
| Ammonium Hydroxide (CAS 1336-21-6) | PEL | 35 mg/m3 |
| | | 50 ppm |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|------------------------------------|------|-----------|-------------------------------|
| Ammonium Hydroxide (CAS 1336-21-6) | STEL | 35 ppm | |
| | TWA | 25 ppm | |
| Ethylene Glycol (CAS 107-21-1) | STEL | 10 mg/m3 | Aerosol, inhalable. |
| | | 50 ppm | Vapor fraction |
| Oxalaldehyde (CAS 107-22-2) | TWA | 25 ppm | Vapor fraction |
| | TWA | 0.1 mg/m3 | Inhalable fraction and vapor. |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|------------------------------------|------|--------------------|
| Ammonium Hydroxide (CAS 1336-21-6) | STEL | 27 mg/m3 |
| | | 35 ppm |
| | TWA | 18 mg/m3 25 ppm |

US. Workplace Environmental Exposure Level (WEEL) Guides

| Components | Type | Value | Form |
|--|------|-----------|-------------------------------|
| Oxalaldehyde (CAS 107-22-2) | TWA | 0.1 mg/m3 | Inhalable fraction and vapor. |
| | | 0.042 ppm | Inhalable fraction and vapor. |
| Trans-1,3,3,3-Tetrafluoroprop-1-ene (CAS 29118-24-9) | TWA | 800 ppm | |

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

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

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|---------------------------------------|--|
| Eye/face protection | Wear safety glasses with side shields (or goggles) or a face shield. Chemical respirator with organic vapor cartridge and full facepiece. Applicable for industrial settings only. |
| Skin protection | |
| Hand protection | Wear appropriate chemical resistant gloves. Applicable for industrial settings only. |
| Other | Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Applicable for industrial settings only. |
| Respiratory protection | Chemical respirator with organic vapor cartridge and full facepiece. Chemical respirator with organic vapor cartridge and full facepiece if threshold limits are exceeded. Applicable for industrial settings only. |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. |
| General hygiene considerations | When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

9. Physical and chemical properties

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|---|-----------------------------|
| Appearance | Opaque Liquid |
| Physical state | Liquid. |
| Form | Aerosol. |
| Color | Milky. White |
| Odor | Ammonia |
| Odor threshold | Not available. |
| pH | 9.3 - 9.8 |
| Melting point/freezing point | 29 °F (-1.67 °C) estimated |
| Initial boiling point and boiling range | 212 °F (100 °C) |
| Flash point | No Flash Point |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | 2078.98424 hPa estimated |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | 694.4 °F (368 °C) estimated |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Density | 8.34 lbs/gal Concentrate |
| Explosive properties | Not explosive. |
| Flammability (flash back) | None |
| Heat of combustion (NFPA 30B) | 0.5 kJ/g |

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|-----------------------------|----------------|
| Oxidizing properties | Not oxidizing. |
| Percent volatile | > 95 % |
| Specific gravity | 1 |
| VOC | 0 % w/w |

10. Stability and reactivity

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|---|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Conditions to avoid | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|--|
| Inhalation | Prolonged inhalation may be harmful. |
| Skin contact | No adverse effects due to skin contact are expected. |
| 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 Not known.

| Components | Species | Test Results |
|--|--|---------------------|
| Ammonium Hydroxide (CAS 1336-21-6) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | 350 mg/kg |
| Citric Acid (CAS 77-92-9) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | 6730 mg/kg |
| Ethylene Glycol (CAS 107-21-1) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 9530 mg/kg |
| Oral | | |
| LD50 | Rat | 5.89 g/kg |
| Oxalaldehyde (CAS 107-22-2) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rat | > 2000 mg/kg |
| Inhalation | | |
| LC50 | Rat | > 1.3 mg/l, 4 Hours |
| Oral | | |
| LD50 | Rat | 762 mg/kg |
| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. | |
| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation. | |

Respiratory or skin sensitization

ACGIH sensitization

GLYOXAL, INHALABLE FRACTION AND VAPOR (CAS 107-22-2) Dermal sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components | Species | Test Results |
|------------------------------------|---------|---|
| Ammonium Hydroxide (CAS 1336-21-6) | | |
| Aquatic | | |
| Fish | LC50 | Western mosquitofish (<i>Gambusia affinis</i>) 15 mg/l, 96 hours |
| Ethylene Glycol (CAS 107-21-1) | | |
| Aquatic | | |
| Fish | LC50 | Fathead minnow (<i>Pimephales promelas</i>) 8050 mg/l, 96 hours |
| Oxalaldehyde (CAS 107-22-2) | | |
| Aquatic | | |
| Fish | LC50 | Fathead minnow (<i>Pimephales promelas</i>) 215 mg/l, 96 hours |
| Xanthan Gum (CAS 11138-66-2) | | |
| Aquatic | | |
| Fish | LC50 | Rainbow trout, donaldson trout (Oncorhynchus mykiss) 320 - 560 mg/l, 96 hours |

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethylene Glycol -1.36

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. 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 | UN1950 |
| UN proper shipping name | Aerosols, non-flammable, Limited Quantity |
| Transport hazard class(es) | |
| Class | 2.2 |
| Subsidiary risk | - |
| Label(s) | None |
| Packing group | Not available. |
| Environmental hazards | |
| Marine pollutant | No |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Packaging exceptions | 306 |
| Packaging non bulk | None |
| Packaging bulk | None |

IATA

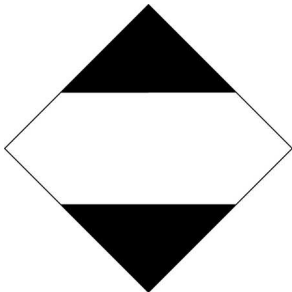
| | |
|-------------------------------------|---|
| UN number | UN1950 |
| UN proper shipping name | Aerosols, non flammable, Limited Quantity |
| Transport hazard class(es) | |
| Class | 2.2 |
| Subsidiary risk | - |
| Packing group | Not available. |
| Environmental hazards | No |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

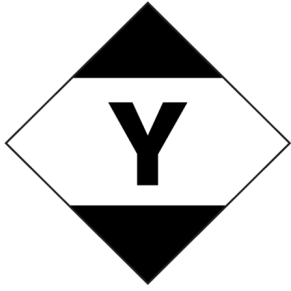
IMDG

| | |
|-------------------------------------|---|
| UN number | UN1950 |
| UN proper shipping name | Aerosols, Limited Quantity |
| Transport hazard class(es) | |
| Class | 2.2 |
| Subsidiary risk | - |
| Packing group | Not available. |
| 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.

DOT; IMDG





15. Regulatory information

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

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Ammonium Hydroxide (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 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No (Exempt)

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|-----------------|------------|----------|
| Ethylene Glycol | 107-21-1 | 1 - < 3 |

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

California Proposition 65



WARNING: California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

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 |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| Taiwan | Taiwan Chemical Substance Inventory (TCSI) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No |

*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 | 07-14-2016 |
| Revision date | 06-13-2019 |
| Version # | 07 |
| HMIS® ratings | Health: 2 Flammability: 0 Physical hazard: 0 |
| NFPA ratings | Health: 2 Flammability: 0 Instability: 0 |

NFPA ratings



Disclaimer

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

Revision information

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