

# SAFETY DATA SHEET

## 1. Identification

Product identifier	Tite Seal Instant Tire Repa	lir
Other means of identification		
SDS number	M1118	
Part No.	M1108, M1114, M1118, M1	128, M1108OPE, M1118OPE
Tariff code	3506.91.0000	
Recommended use	Tire Repair	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier	Distributor information	
Manufacturer		
Company name	Blumenthal Brands Integrate	ed, LLC
Address	600 Radiator Road	
	Indian Trail, NC 28079	
Telephone	Customer Service/ Technical	(704) 821-7643
Website	www.solvewithB.com	
E-mail	sds@solvewithB.com	
Emergency phone number	INFOTRAC (United States)	(800) 535-5053
	INFOTRAC (International)	(352) 323-3500

## 2. Hazard(s) identification

Physical hazards	Flammable aerosols	Category 2
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. repeated exposure.	May cause damage to organs through prolonged or
Precautionary statement		
Prevention		ot surfaces No smoking. Do not spray on an open container: Do not pierce or burn, even after use. Do
Response	Get medical advice/attention if you feel unw	ell.
Storage	Protect from sunlight. Do not expose to tem	peratures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance	e with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	NOTE: GHS Category 3 Non-flammable ae	rosol (version 7 - July 2017).
	Product Safety Commission regulations whi Communication labeling. The container labe	and is labeled in accordance with the US Consumer ch take precedence over OSHA Hazard el may not include the OSHA label elements listed in entire SDS and the product label prior to use in the
	worкріасе.	

## 3. Composition/information on ingredients

ixtures			
Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	60 - < 70
Trans-1,3,3,3-Tetrafluoroprop-1-en e		29118-24-9	20 - < 30
Acrylic Polymer Dispersion		Mixture	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
Glyoxal		107-22-2	< 0.1
Other components below reportable	levels		1 - < 3

Other components below reportable levels

\*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

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	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	Flammable aerosol. Contents under pressure.
6. Accidental release measures	

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. 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.

Components	Туре	Value	
Ammonium Hydroxide (CAS 1336-21-6)	PEL	35 mg/m3	
		50 ppm	
US. ACGIH Threshold Limit Values	;		
Components	Туре	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
	TWA	25 ppm	Vapor fraction
Glyoxal (CAS 107-22-2)	TWA	0.1 mg/m3	Inhalable fraction and vapor.
US. NIOSH: Pocket Guide to Chem	ical Hazards		
US. NIOSH: Pocket Guide to Chem Components	ical Hazards Type	Value	
		Value 27 mg/m3	
Components Ammonium Hydroxide (CAS	Туре		
Components Ammonium Hydroxide (CAS	Туре	27 mg/m3	
Components Ammonium Hydroxide (CAS	Type STEL	27 mg/m3 35 ppm	
Components Ammonium Hydroxide (CAS	Type STEL TWA	27 mg/m3 35 ppm 18 mg/m3	
Components Ammonium Hydroxide (CAS 1336-21-6)	Type STEL TWA	27 mg/m3 35 ppm 18 mg/m3	Form
Components Ammonium Hydroxide (CAS 1336-21-6) US. Workplace Environmental Exp	Type STEL TWA osure Level (WEEL) Guides	27 mg/m3 35 ppm 18 mg/m3 25 ppm	Form Inhalable fraction and vapor.

Components	Туре	Value	Form
Trans-1,3,3,3-Tetrafluoropr op-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 equipme	ent	
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 g	loves. Applicable for industria	l settings only.
Other	Wear appropriate chemical resistant c Applicable for industrial settings only.	lothing. Use of an impervious	apron is recommended.
Respiratory protection	Chemical respirator with organic vapo organic vapor cartridge and full facepi- settings only.		
Thermal hazards	Wear appropriate thermal protective c	lothing, 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

Appearance	Opaque Liquid
Physical state	Liquid.
Form	Aerosol.
Color	Milky. White
Odor	Ammonia
Odor threshold	Not available.
рН	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 exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	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	
Oxidizing properties	Not oxidizing.	
Percent volatile	> 95 %	
Specific gravity	1	
VOC	0 % w/w	
10. Stability and reactivity	1	
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 informa	tion	
Information on likely routes of e	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	Direct contact with eyes may cause temporary irritation.	

## physical, chemical and toxicological characteristics

### Information on toxicological effects

Acute toxicity	Not known.	
Components	Species	Test Results
Ammonium Hydroxide (C	AS 1336-21-6)	
<u>Acute</u>		
Oral		
LD50	Rat	350 mg/kg
Citric Acid (CAS 77-92-9)		
Acute		
Oral		
LD50	Rat	6730 mg/kg
Ethylene Glycol (CAS 107	7-21-1)	
Acute		
Dermal		
LD50	Rabbit	9530 mg/kg
Oral		
LD50	Rat	5.89 g/kg

Glyoxal (CAS 107-22-2)         Acute         Dermal         LD50       Rat       > 600 mg/kg, 24 Hours         Inhalation       LC50       Rat       > 1.3 mg/l, 4 Hours         LC50       Rat       2.47 mg/l, 4 Hours         Oral       2.47 mg/l, 4 Hours         LD50       Rat       762 mg/kg         Skin corrosion/irritation       Prolonged skin contact may cause temporary irritation.         Serious eye damage/eye       Direct contact with eyes may cause temporary irritation.         Respiratory or skin sensitization       ACLE FRACTION AND VAPOR (CAS Dermal sensitization 107-22-2)         Respiratory sensilization       Not a respiratory sensilizer.         Skin sensitization       This product is not expected to cause skin sensilization.         Germ cell mutagenicity       Not data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.         Carrinogenicity       Not assitable as to carrinogenicity to humans.         IARC Monographs. Overall Evaluation of Carcinogenicity       Not assitable as to carrinogenicity         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 repro	Components	Species	Test Results
Demnal LD50       Rat       > 800 mg/kg, 24 Hours         LD50       Rat       > 1.3 mg/l, 4 Hours         LD50       Rat       2.47 mg/l, 4 Hours         Dral       2.47 mg/l, 4 Hours         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 (17-22-2)       Not arespiratory sensitization         ACCIH sonsitization (17-22-2)       Not a respiratory sensitizer.         Respiratory sensitization (17-22-2)       Not a respiratory sensitizer.         Skin sensitization (17-22-2)       Not a sepiratory sensitizer.         Skin sensitization (17-22-2)       Not a sepiratory sensitizer.         Respiratory sensitization (17-22-2)       Not a assitiable as to carcinogenicity to numans.         Germ cell mutagenicity       Not classifiable as to carcinogenicity to numans.         IARC Monographs. Overall Evaluation of Carcinogenicity to numans.       Not classifiable as to carcinogenicity to numans.         IARC Monographs. Overall Evaluation of Carcinogenicity to numans.       Not classified.         Not regulated.       Not classified.         Not regulated.       Not classified.         Specific target organ toxi	Glyoxal (CAS 107-22-2)		
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LosonRat> 1.3 mg/l, 4 Hours 2.47 mg/l, 4 Hours 2.47 mg/l, 4 HoursOral LD50Rat2.47 mg/l, 4 HoursDirect contact may cause temporary irritation.Direct contact with eyes may cause temporary irritation.Serious eye damage/eye irritationDirect contact with eyes may cause temporary irritation.Respiratory or skin sensitization GLYOXAL, INHALABLE FRACTION AND VAPOR (CAS Dermal sensitization GLYOXAL, INHALABLE FRACTION AND VAPOR (CAS Dermal sensitization GLYOXAL, INHALABLE FRACTION AND VAPOR (CAS Dermal sensitization.Ger coll matagenitizationNot a respiratory sensitizer. Skin sensitizationSkin sensitization of 7-22-20Not classifiable as to carcinogenicity to humans.IARC Monographs. Overall E-substances (29 CFR 1910.1001-1052) Not listed.Not classifiable as to carcinogenicity to humans.Reporting tempNot classified.Specific target organ toxicity - Not listed.Not classified.Reporting temposure Reporting temposureMay cause damage to organs through prolonged or repeated exposure.Appriation hazardNot an aspiration hazard.Chronic effectsMay cause damage to organs through prolonged or repeated exposure.Appriation hazardNot an aspiration hazard.Chronic effectsThe product is not classified as environmentally hazardous. However, this does not exclude the osibility that large or frequent spills can have a harmful or damaging effect on the environmentally b rammful.EcotoxicityNot an aspiration hazard.ExposureNot an aspiration hazard.ExposureNot an aspiration hazard.Exposure	LD50	Rat	> 800 mg/kg, 24 Hours
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mutagenic or genotoxic.         Carcinogenicity       Not classifiable as to carcinogenicity to humans.         IARC Monographs. Overall Evaluation of Carcinogenicity         Not listed.         OSHA Specifically 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-       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.	Skin sensitization	This product is not expected to cause skin sensit	ization.
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possibility that large or frequent spills can have a harmful or damaging effect on the environment.	12. Ecological informatio		
	Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the	
	Components		

•		•	
Ammonium Hydroxid	e (CAS 1336-21-6)		
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis) 15 mg/l, 96 hours	
Ethylene Glycol (CAS	S 107-21-1)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas) 8050 mg/l, 96 hours	
Glyoxal (CAS 107-22	-2)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas) 215 mg/l, 96 hours	

Components		Species	Test Results
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 ing	edients in the mixture.
Bioaccumulative potential			
Partition coefficient n-octa Ethylene Glycol	nol / water (l	og Kow) -1.36	
Mobility in soil	No data av	vailable.	
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 consideration	ons		
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	n		
DOT			
UN number	UN1950		
UN proper shipping name	Aerosols,	non-flammable, Limited Quantity	

	•	
	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
ΙΑΤ	Α	
	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
		Read safety instructions, SDS and emergency procedures before handling.
IMC	0G	
	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** No Marine pollutant F-D. S-U EmS Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code DOT; IMDG ΙΑΤΑ 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 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 Not regulated.

(SDWA)

### **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 inver	ntory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
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

	<b>V</b> 1 1
Issue date	07-14-2016
Revision date	08-05-2020
Version #	09
HMIS® ratings	Health: 2 Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 0 Instability: 0
NFPA ratings	200
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	Product and Company Identification: Product Codes Physical & Chemical Properties: Multiple Properties