

Gutter & Seam Sealer Revision Number 1

Revision Date 07-Jun-2018 Supersedes Date: 07-Jun-2018

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name

Gutter & Seam Sealer

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Uses advised against Sealant. No information available

1.3. Details of the supplier of the safety data sheet

Responsible Party

Bostik Inc. 11320 W. Watertown Plank Road Wauwatosa, Wisconsin 53226 USA Phone: +1 (800) 843-0844 (Domestic Toll Free) Phone: +1 (414) 774-2250 (International) Fax: +1 (414) 774-8075

E-mail msds@bostik-us.com

1.4. Emergency telephone number

Telephone: 1-800-227-0332 (Outside U.S.) 1-703-527-3887

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

2.2. Label Elements

EMERGENCY OVERVIEW

DANGER

Hazard statements Causes skin irritation Causes serious eye irritation May cause cancer May cause respiratory irritation. May cause drowsiness or dizziness May cause damage to organs through prolonged or repeated exposure

Manufacturer Siroflex Inc. PO Box 26749 Greenville SC 29616 Tel: 800.359.6398

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Appearance No information available F

Physical State Liquid

Odor No information available

Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention Specific treatment (see first aid measures on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

Not applicable

Unknown acute toxicity

53% of the mixture consists of ingredient(s) of unknown toxicity

2.3. Other Information

No information available.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mixture

3.2 Mixtures

Chemical Name	CAS No	Weight-%
Tetrachloroethylene	127-18-4	30 - 60
Benzene, 1,2,4-trimethyl-	95-63-6	1 - 5
Solvent naphtha, petroleum, light aromatic	64742-95-6	1 - 5
Cumene	98-82-8	0.1 - 1
Titanium dioxide	13463-67-7	0.1 - 1

The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice	Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. If symptoms persist, call a physician.	
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.	
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/ attention.	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If unconscious place in recovery position and seek medical advice. (Get medical attention immediately if symptoms occur).	
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.	
Self-Protection of the First Aider	Use personal protective equipment as required.	
4.2. Most important symptoms and	effects, both acute and delayed	
Symptoms	May cause respiratory tract irritation. Coughing and/ or wheezing. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Headache. Drowsiness. Dizziness. May cause skin and eye irritation.	
4.3. Indication of any immediate medical attention and special treatment needed		
Note to physicians	Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. Treat symptomatically.	
4.4. Reference to Other Sections		
Reference to other sections	Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION Section 11: TOXICOLOGY INFORMATION	

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

5.2. Special hazards arising from the substance or mixture

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Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products	Carbon monoxide. Carbon dioxide (CO2).
Explosion Data	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

5.3. Advice for firefighters

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not allow run-off from fire-fighting to enter drains or water courses.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. Avoid breathing vapors or mists. Ensure adequate ventilation, especially in confined areas.
6.2. Environmental precautions	
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.
6.3. Methods and material for co	ntainment and cleaning up
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Use personal protective equipment as required. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.
6.4. Reference to other sections	
Reference to other sections	Section 7: HANDLING AND STORAGE Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION Section 13: DISPOSAL CONSIDERATIONS

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling	Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. After contact with skin, wash immediately with plenty of water and soap. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep/store only in original container. Keep locked up and out of reach of children. Keep
	containers tightly closed in a dry, cool and well-ventilated place. Do not reuse container.

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Incompatible Materials

None known based on information supplied.

7.3. Specific end use(s)

Other Information

No information available.

7.4. References to Other Sections

Reference to other sections

Section 13: DISPOSAL CONSIDERATIONS Section 10: STABILITY AND REACTIVITY

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL	Mexico
Tetrachloroethylene	STEL: 100 ppm	IDLH: 150 ppm	TWA: 100 ppm	TWA: 100 ppm
127-18-4	TWA: 25 ppm		Ceiling: 200 ppm	TWA: 670 mg/m ³
				TWA: 200 ppm
				TWA: 1250 mg/m ³
				STEL: 200 ppm
				STEL: 1340 mg/m ³
Benzene, 1,2,4-trimethyl-	-	TWA: 25 ppm	-	-
95-63-6		TWA: 125 mg/m ³		
Cumene	TWA: 50 ppm	IDLH: 900 ppm	TWA: 50 ppm	TWA: 50 ppm
98-82-8		TWA: 50 ppm	TWA: 245 mg/m ³	TWA: 245 mg/m ³
		TWA: 245 mg/m ³	S*	STEL: 75 ppm
				STEL: 365 mg/m ³
Titanium dioxide	TWA: 10 mg/m ³	IDLH: 5000 mg/m ³	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³
13463-67-7				STEL: 20 mg/m ³

Chemical Name	Argentina	Brazil	Chile	Venezuela
Tetrachloroethylene	TWA: 25 ppm	TWA: 78 ppm	TWA: 22 ppm	STEL: 100 ppm
127-18-4	STEL: 100 ppm	TWA: 525 mg/m ³	TWA: 149 mg/m ³	TWA: 25 ppm
Benzene, 1,2,4-trimethyl-	-	-	-	TWA: 20 ppm
95-63-6				TWA: 100 mg/m ³
Cumene	TWA: 50 ppm	TWA: 39 ppm	TWA: 44 ppm	Skin
98-82-8		TWA: 190 mg/m ³	TWA: 215 mg/m ³	TWA: 50 ppm
		Skin	Skin	
Titanium dioxide	TWA: 10 mg/m ³	-	-	TWA: 10 mg/m ³
13463-67-7				_

8.2. Exposure controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Showers Eyewash stations Ventilation systems.

Personal protective equipment [PPE]

Eye/Face ProtectionTight sealing safety goggles.Skin and Body ProtectionWear suitable chemical resistant gloves. The selection of suitable gloves does not only
depend on the material, but also on further marks of quality and various manufacturers.Respiratory ProtectionIf exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved
respiratory protection should be worn. Positive-pressure supplied air respirators may be
required for high airborne contaminant concentrations. Respiratory protection must be
provided in accordance with current local regulations.

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General Hygiene Considerations Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Avoid breathing (dust, vapor, mist, gas). Avoid contact with eyes, skin and clothing. Wash face, hands and any exposed skin thoroughly after handling. Take off all contaminated clothing and wash it before reuse. Regular cleaning of equipment, work area and clothing is recommended.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<u>9.1. Information on basic physical a</u> Physical State Color Odor Odor Threshold	Ind chemical properties Liquid White No information available No information available		
Property pH Melting point / freezing point Boiling point / boiling range Flash Point Evaporation Rate Flammability (solid, gas) Flammability Limit in Air	Values No information available No information available 121 °C / 250 °F > 93 °C / > 200 °F No information available No information available	Remarks • Method	
Upper flammability limit: Lower flammability limit: Vapor Pressure Vapor Density Relative Density	7% 0.7% 2.4 4.1 1.25	kPa @ 20 °C (air = 1) Water Solubility Solubility in Other Solvents Partition Coefficient Autoignition Temperature Decomposition Temperature	No information available No information available No information available No information available
Kinematic Viscosity	< 20.5 mm²/s	@ 40°C	
Dynamic Viscosity	No information available		
Explosive Properties Oxidizing Properties	No information available No information available		
9.2. Other information Softening Point Molecular Weight Solvent content (%) Solid content (%) Density VOC	No information available No information available No information available No information available		

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions.

10.2. Chemical stability

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Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

None known based on information supplied.

10.6. Hazardous decomposition products

None known based on information supplied.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Product InformationNo data availableInhalationMay cause irritation of respiratory tract. May cause drowsiness or dizziness.Eye contactIrritating to eyes. Avoid contact with eyes.Skin ContactIrritating to skin.IngestionMay cause central nervous system depression.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Tetrachloroethylene 127-18-4	= 2629 mg/kg (Rat)	-	= 27.8 mg/L (Rat)4 h
Benzene, 1,2,4-trimethyl- 95-63-6	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m³(Rat)4 h
Solvent naphtha, petroleum, light aromatic 64742-95-6	= 8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat)4 h
Cumene 98-82-8	= 1400 mg/kg(Rat)	= 12300 µL/kg (Rabbit)	= 39000 mg/m ³ (Rat) 4 h > 3577 ppm (Rat) 6 h
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure_

Symptoms	No information available.
Skin Corrosion/Irritation	Irritating to skin.
Serious Eye Damage/Eye Irritation	Severe eye irritation.
Irritation	No information available.
Corrosivity	No information available.
Sensitization	No information available.
Germ Cell Mutagenicity	No information available.
Reproductive Toxicity	No information available.
Developmental Toxicity	No information available.
Teratogenicity	No information available.
STOT - Single Exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
STOT - Repeated Exposure	May cause damage to organs through prolonged or repeated exposure.
Chronic Toxicity	May cause adverse effects on the bone marrow and blood-forming system. May cause
	adverse liver effects.
Target Organ Effects	Blood, Central nervous system, Eyes, Kidney, Liver, Respiratory system, Skin.

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Aspiration hazard	No information available.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Tetrachloroethylene 127-18-4	A3	Group 2A	Reasonably Anticipated	Х
Cumene 98-82-8	-	Group 2B	Reasonably Anticipated	Х
Titanium dioxide 13463-67-7	-	Group 2B	-	Х

ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Confirmed animal carcinogen with unknown relevance to humans IARC (International Agency for Research on Cancer) Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in Humans NTP (National Toxicology Program) Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

Section 12: ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT.

12.1. Toxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Tetrachloroethylene 127-18-4	EC50 96 h > 500 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h 4.73 - 5.27 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h 8.6 - 13.5 mg/L (Pimephales promelas static) LC50 96 h 12.4 - 14.4 mg/L (Pimephales promelas flow-through) LC50 96 h 11.0 - 15.0 mg/L (Lepomis macrochirus static)	EC50 = 100 mg/L 24 h EC50 = 112 mg/L 24 h EC50 = 120.0 mg/L 30 min	EC50 48 h 6.1 - 9.0 mg/L (Daphnia magna Static)
Benzene, 1,2,4-trimethyl- 95-63-6		LC50 96 h 7.19 - 8.28 mg/L (Pimephales promelas flow-through)		EC50 48 h = 6.14 mg/L (Daphnia magna)
Solvent naphtha, petroleum, light aromatic 64742-95-6		LC50 96 h = 9.22 mg/L (Oncorhynchus mykiss)		EC50 48 h = 3.2 mg/L (Daphnia magna)
Cumene 98-82-8	EC50 72 h = 2.6 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h 6.04 - 6.61 mg/L (Pimephales promelas flow-through) LC50 96 h = 2.7 mg/L (Oncorhynchus mykiss semi-static) LC50 96 h = 4.8 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h = 5.1 mg/L (Poecilia reticulata semi-static)	EC50 = 0.89 mg/L 5 min EC50 = 1.10 mg/L 15 min EC50 = 1.48 mg/L 30 min EC50 = 172 mg/L 24 h	EC50 48 h = 0.6 mg/L (Daphnia magna) EC50 48 h 7.9 - 14.1 mg/L (Daphnia magna Static)

12.2. Persistence and degradability

No information available.

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12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal of WastesIt is the responsibility of the waste generator to determine the toxicity and physical
properties of the material generated to determine the proper waste identification and
disposal methods in compliance with applicable regulationsContaminated PackagingDispose of in accordance with federal, state and local regulations

Section 14: TRANSPORTATION INFORMATION

Note:	The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition) The information shown here, may not always agree with the bill of lading shipping description for the material 49 CFR 171.4(c) "Exceptions. Except when all or part of the transportation is by vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicle, rail car or aircraft."
DOT UN/ID No Proper Shipping Name Hazard Class Packing Group Reportable Quantity (RQ) Special Provisions Marine Pollutant Description Emergency Response Guide Number	UN1897 Tetrachloroethylene mixture, Marine Pollutant 6.1 III (Tetrachloroethylene: RQ (kg)= 45.40) IB3, N36, T4, TP1 This product contains a chemical which is listed as a marine pollutant according to DOT. UN1897, Tetrachloroethylene mixture, 6.1, III, Marine Pollutant 160
IATA UN/ID No Proper Shipping Name Transport hazard class(es) Packing Group ERG Code Description	UN1897 Tetrachloroethylene mixture 6.1 III 6L UN1897, Tetrachloroethylene mixture, 6.1, III
IMDG UN Number Proper Shipping Name Transport hazard class(es) Packing Group EmS-No Marine Pollutant	UN1897 Tetrachloroethylene mixture, Marine Pollutant 6.1 III F-A, S-A This product contains a chemical which is listed as a marine pollutant according to

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Description

UN1897, Tetrachloroethylene mixture, 6.1, III, Marine Pollutant

Section 15: REGULATORY INFORMATION

Global Inventories

TSCA	Listed
DSL	Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL - Canadian Domestic Substances List
Listed - The components of this product are either listed or exempt from listing on inventory.

IMDG/IMO

Not Listed - One or more components of this product are not listed on inventory.

United States of America

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No
Tetrachloroethylene	127-18-4
Benzene, 1,2,4-trimethyl-	95-63-6

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Europe

Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation.

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet No information available

Key Literature References and Sources for Data No information available

Prepared By

07-Jun-2018

Product Safety & Regulatory Affairs

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Revision Note	Not applicable.	
Training Advice	No information available	
Further information	No information available	

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.

End of Safety Data Sheet