



Conforms to OSHA HazCom 2012 Standard and WHMIS 2015

SAFETY DATA SHEET

Section 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: TFC Non-Skinning Butyl Sealant

Product Code: Not Available

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Product Use: Sealant

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEETS

Name/Address: Triangle Fastener Corporation
1925 Preble Ave
Pittsburgh, PA 15233

Telephone Number: 1-412-321-5000

1.4 EMERGENCY TELEPHONE NUMBER

Emergency Telephone Number: CHEMTREC 1-800-424-9300 (US and Canada)
INTERNATIONAL + 1-703-527-3887

Section 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL IN ACCORDANCE WITH PARAGRAPH (d) OF 29 CFR 1910.1200 (OSHA HAZCOM2012)

Flammable Liquid	Category 4
Aspiration Hazard	Category 1
Eye Irritation	Category 2A
Carcinogenicity	Category 1A
Specific Target Organ Toxicity—Single Exposure	Category 3
Specific Target Organ Toxicity—Repeated Exposure	Category 2

2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM2012

2.2a SIGNAL WORD:
DANGER!

2.2b HAZARD STATEMENTS

Combustible liquid
May be fatal if swallowed and enters airways
Causes serious eye irritation
May cause cancer
May cause respiratory irritation
May cause damage to organs through prolonged or repeated exposure



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2.2c HAZARD PICTOGRAMS



2.2d PRECAUTIONARY STATEMENTS

i. PREVENTION	Keep away from flames and hot surfaces. No smoking. Wash hands thoroughly after handling. Do not breathe vapors/fumes. Do not eat, drink or smoke while using this product. Use outdoors or in a well-ventilated area. Wear impervious gloves/protective clothing/eye protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
ii. RESPONSE	In case of fire: Use ABC extinguisher to extinguish. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. 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 inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor. If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.
iii. STORAGE	Store locked up. Store in a well-ventilated place. Keep cool. Keep container tightly closed.
iv. DISPOSAL	Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations.

2.3 ADDITIONAL INFORMATION

2.3a HNOC – HAZARDS NOT OTHERWISE CLASSIFIED

Not Applicable

2.3b UNKNOWN ACUTE TOXICITY

11.1% of the mixture consists of ingredient(s) of unknown acute toxicity.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

Chemical Name	CAS Number	Weight %
Calcium Carbonate**	1317-65-3	40 – 70%*
Polybutene	9003-29-6	10 – 30%*
Distillates (petroleum), hydrotreated light	64742-47-8	10 – 30%*



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C9-C15 Cycloalkanes	8052-41-3	1 – 5%*
C9-C15 Alkanes	8052-41-3	0.5 – 1.5%*
C9-C15 Aromatics	8052-41-3	0.5 – 1.5%*
Crystalline Silica**	14808-60-7	0.1 – 1.0%*

**Inhalation of particulates unlikely due to product's physical state.

*Means that the component will fall into one of the ranges specified due to batch-to-batch variability and to protect Confidential Business Information.

Section 4: FIRST-AID MEASURES

4.1 DESCRIPTION OF THE FIRST-AID MEASURES

ROUTES OF EXPOSURE	DESCRIPTION
Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.
Skin Contact:	In case of contact, immediately flush skin with plenty of soap and water. For minor skin contact, avoid spreading material on unaffected skin. If skin irritation or rash occurs: get medical attention/advice. Take off contaminated clothing and wash before reuse.
Inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Ingestion:	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

ROUTES OF EXPOSURE	DESCRIPTION
Eye Contact:	Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Skin Contact:	May cause skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis.
Inhalation:	May cause respiratory tract irritation. Prolonged exposure may cause chronic effects.
Ingestion:	May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Note to Physicians: Symptoms may not appear immediately.



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Specific Treatments: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Section 5: FIRE-FIGHTING MEASURES

5.1 FLAMMABILITY

Flammability: Combustible by WHMIS/OSHA HAZCOM2012 Criteria

5.2 EXTINGUISHING MEDIA

5.2a. Suitable Extinguishing Media:
Treat for surrounding material.

5.2b. Unsuitable Extinguishing Media:
CAUTION: Use of water spray when fighting fire may be inefficient.

5.3 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

5.3a. Products of Combustion:
By heating and fire, harmful vapors/gases may be formed. Carbon Oxides

5.3b. Explosion Data

- i. **Sensitivity to Mechanical Impact:**
Not Available
- ii. **Sensitivity to Static Discharge:**
Not Available

5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear(full bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Methods for Containment: Recover all usable material. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleaning-Up: Dispose of unwanted material properly in accordance with all local, regional, national and international regulations.



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Section 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Handling: Keep away from flames and hot surfaces. No smoking. Use in well-ventilated areas. Wear impervious gloves and eye protection. Do not mix with other chemical products, except as indicated by the manufacturers. Do not get in eyes. Do not get on skin or clothing. Do not breathe vapors/fumes. Do not take internally.

General Hygiene Advice: Use good industrial hygiene practices and wear recommended personal protection. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage: Store locked up. Keep out of the reach of children. Keep container tightly closed. Store at room temperature and keep containers closed when not in use.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETER

Exposure Guidelines:

Occupational Exposure Limits		
Chemical Name	OSHA-PEL	ACGIH-TLV
Calcium Carbonate**	5 mg/m ³ (Resp.) 15 mg/m ³ (Total)	5 mg/m ³ (Resp.)
Polybutene	Not Available	Not Available
Distillates (petroleum), hydrotreated light	Not Available	200 mg/m ³
C9-C15 Cycloalkanes	Not Available	400 ppm
C9-C15 Alkanes	Not Available	200 ppm
C9-C15 Aromatics	Not Available	400 ppm
Crystalline Silica**	0.1 mg/m ³	0.025 mg/m ³

**Inhalation of particulates unlikely due to product's physical state.

8.2 EXPOSURE CONTROLS

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

8.3 INDIVIDUAL PROTECTION MEASURES

8.3a. Personal Protective Equipment:

- i. **Eye/Face Protection:** Wear approved eye protection [properly fitted dust- or splash-proof chemical safety goggles/face (face shield)]



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ii. Skin Protection:

1. **Hand Protection:** Wear impervious gloves, such as nitrile.
2. **Body Protection:** Wear suitable protective clothing

iii. **Respiratory Protection:** A NIOSH approved respirator or filtering face piece, such as N95, is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

iv. **General Health and Safety Measures:** Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):	Paste
Odor:	Mild
Odor Threshold:	Not Available
pH:	Not Available
Melting point/Freezing point:	Not Available
Initial boiling point and boiling range:	Not Available
Flash point:	>176°F (>80°C)
Evaporation rate (Water=1):	Not Available
Flammability:	Combustible
Upper Flammability/Explosive Limit:	Not Available
Lower Flammability/Explosive Limit:	Not Available
Vapor Pressure	Not Available
Vapor Density:	Not Available
Relative Density:	1.30 – 1.40 g/mL
Solubility in Water:	Insoluble
Partition coefficient: n-octanol/water:	Not Available
Auto-ignition temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity (cps):	Not Available
VOC Content:	<150 g/L (11.2%)

Section 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

No dangerous reaction known under conditions of normal use.

10.2. CHEMICAL STABILITY

Stable under normal storage conditions. Keep dry in storage.

10.3. POSSIBILITY OF HAZARDOUS REACTION

No dangerous reaction known under conditions of normal use.



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10.4. CONDITIONS TO AVOID

Heat. Incompatible materials.

10.5. INCOMPATIBLE MATERIALS

Strong oxidizing agents. Water and moisture.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Oxides.

Section 11: TOXICOLOGICAL INFORMATION

11.1. LIKELY ROUTES OF EXPOSURE:

Skin contact, eye contact, inhalation, and ingestion.

11.2. SYMPTOMS RELATED TO PHYSICAL/CHEMICAL/TOXICOLOGICAL CHARACTERISTICS:

Eye Contact: Causes eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Skin Contact: Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause an allergic skin reaction.

Inhalation: May cause respiratory tract irritation. Prolonged exposure may cause chronic effects.

Ingestion: May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

Acute Toxicity (ATE _{mix} = 5,627 mg/kg)		
Chemical Name	LC50	LD50
Calcium Carbonate	Not Available	Oral: 6,450 mg/kg, rat
Polybutene	Not Available	Oral: >34,600 mg/kg, rat
Distillates (petroleum), hydrotreated light	Not Available	Oral: >2,000 mg/kg, rat
C9-C15 Cycloalkanes	Not Available	Oral: >5,000 mg/kg, rat
C9-C15 Alkanes	Not Available	Oral: >5,000 mg/kg, rat
C9-C15 Aromatics	Not Available	Oral: >5,000 mg/kg, rat
Crystalline Silica	Not Available	Oral: >10,000 mg/kg, rat

Carcinogenicity	
Chemical Name	Chemical Listed as Carcinogens or Potential Carcinogen (NTP,IARC,OSHA,ACGIH,CP65)
Calcium Carbonate	Not Listed
Polybutene	Not Listed
Distillates (petroleum), hydrotreated light	Not Listed
C9-C15 Cycloalkanes	Not Listed
C9-C15 Alkanes	Not Listed
C9-C15 Aromatics	Not Listed
Crystalline Silica	N-2, I-1, O-1, ACGIH-A2, CP65



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11.3. DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT AND LONG-TERM EXPOSURE

SHORT-TERM	
Skin Corrosion/Irritation:	May cause skin irritation
Serious Eye Damage/Irritation:	Causes serious eye irritation
Respiratory Sensitization:	Not Classified
Skin Sensitization:	Not Classified
STOT-Single Exposure:	May cause respiratory irritation
Aspiration Hazard:	May be fatal if swallowed and enters airways
LONG-TERM	
Carcinogenicity:	May cause cancer
Germ Cell Mutagenicity:	Not Classified
Reproductive Toxicity:	Not Classified
STOT-Repeated Exposure:	May cause damage to organs through prolonged or repeated exposure
Synergistic/Antagonistic Effects:	Not Classified

Section 12: ECOLOGICAL INFORMATION

12.1. ECOTOXICITY

May cause long-term adverse effects to the aquatic environment. Keep from entry into sewers and waterways.

Ecotoxicity		
Chemical Name	EC50/NOEC-48 Hours	LC50/NOEC-96 Hours
Calcium Carbonate	Not Available	Not Available
Polybutene	>1,000 mg/L, Fish	>1,000 mg/L, Daphnia magna
Distillates (petroleum), hydrotreated light	Not Available	>1,000 mg/L, Daphnia magna
C9-C15 Cycloalkanes	Not Available	Not Available
C9-C15 Alkanes	Not Available	Not Available
C9-C15 Aromatics	Not Available	Not Available
Crystalline Silica	Not Available	Not Available

12.2. PERSISTENCE AND DEGRADABILITY

Not Available

12.3. BIOACCUMULATIVE POTENTIAL

Not Available

12.4. MOBILITY IN SOIL

Not Available

12.5. OTHER ADVERSE EFFECTS

Not Available

Section 13: DISPOSAL CONSIDERATIONS

13.1. DISPOSAL METHOD

Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations



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13.2. OTHER DISPOSAL CONSIDERATIONS

Not Available

Section 14: TRANSPORT INFORMATION

DOT (U.S.)	TDG (CANADA)	IATA
UN NUMBER: Not Regulated	UN NUMBER: Not Regulated	UN NUMBER: Not Regulated
UN PROPER SHIPPING NAME: Not Regulated	UN PROPER SHIPPING NAME: Not Regulated	UN PROPER SHIPPING NAME: Not Regulated
TRANSPORT HAZARD CLASS (ES): Not Regulated	TRANSPORT HAZARD CLASS (ES): Not Regulated	TRANSPORT HAZARD CLASS (ES): Not Regulated
PACKING GROUP (if applicable): Not Regulated	PACKING GROUP (if applicable): Not Regulated	PACKING GROUP (if applicable): Not Regulated

SUMMARY: Product is NOT regulated under DOT/TDG and other transportation regulations.

14.1. ENVIRONMENTAL HAZARDS

Not Available

14.2. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not Available

14.3. SPECIAL PRECAUTIONS FOR USER

Do not handle until all safety precautions have been read and understood.

Section 15: REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE CHEMICAL

Canada: This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

US: SDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200) HazCom 2012

15.2. US FEDERAL INFORMATION:

CHEMICAL NAME	SARA TITLE III			
	SECTION 302 (EHS) TPQ (LBS)	SECTION 304 EHS RQ (LBS)	CERCLA RQ (LBS)	SECTION 313 (TRI)
Calcium Carbonate	Not Listed	Not Listed	Not Listed	Not Listed




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Polybutene	Not Listed	Not Listed	Not Listed	Not Listed
Distillates (petroleum), hydrotreated light	Not Listed	Not Listed	Not Listed	Not Listed
C9-C15 Cycloalkanes	Not Listed	Not Listed	Not Listed	Not Listed
C9-C15 Alkanes	Not Listed	Not Listed	Not Listed	Not Listed
C9-C15 Aromatics	Not Listed	Not Listed	Not Listed	Not Listed
Crystalline Silica	Not Listed	Not Listed	Not Listed	Not Listed

15.3. US STATE RIGHT TO KNOW LAWS:

California Proposition 65:	 WARNING: This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer, and benzene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
Other U.S. States "Right to Know" Lists:	Calcium Carbonate: CAS#1317-65-3 Polybutene: CAS#9003-29-6 Distillates (petroleum), hydrotreated light: CAS#64742-47-8 C9-C15 Cycloalkanes: CAS#8052-41-3 C9-C15 Alkanes: CAS#8052-41-3

15.4. GLOBAL INVENTORIES

Chemical Name	USA TSCA	Canada DSL/NDSL
Calcium Carbonate	Yes	NDSL
Polybutene	Yes	DSL
Distillates (petroleum), hydrotreated light	Yes	DSL
C9-C15 Cycloalkanes	Yes	DSL
C9-C15 Alkanes	Yes	DSL
C9-C15 Aromatics	Yes	DSL
Crystalline Silica	Yes	DSL

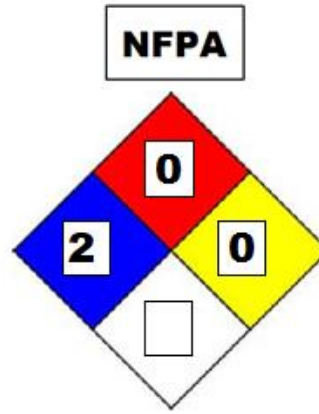
15.5. NFPA AND HMIS RATINGS:



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HEALTH HAZARD 4 EXTREME - Highly toxic - May be fatal on short-term exposure. 3 SERIOUS - Toxic - Full protective suit and breathing apparatus should be worn. 2 MODERATE - Breathing apparatus and face mask must be worn. 1 SLIGHT - Breathing apparatus may be worn. 0 MINIMAL - No precautions necessary.	FLAMMABILITY HAZARD 4 EXTREME - Extremely flammable gas or liquid. Flash Point below 22°F. 3 SERIOUS - Flammable. Flash Point 22°F to 100°F. 2 MODERATE - Combustible. Requires moderate heating to ignite. Flash Point below 200°F. 1 SLIGHT - Slightly combustible. Requires strong heating to ignite. 0 MINIMAL - Will not burn under normal conditions.
SPECIFIC HAZARD OXIDIZER OXY ACID ACID ALKALI ALK CORROSIVE COR Use NO WATER W RADIATION RAD	INSTABILITY HAZARD 4 EXTREME - Explosive at room temperature. 3 SERIOUS - May detonate if shocked or heated under confinement or mixed with water. 2 MODERATE - Unstable. May react with water. 1 SLIGHT - May react if heated or mixed with water. 0 MINIMAL - Normally stable. Does not react with water.



HMIS

Hazard Index	
4	Severe Hazard
3	Serious Hazard
2	Moderate Hazard
1	Slight Hazard

2 HEALTH	PROTECTIVE EQUIPMENT INDEX	
0 FLAMMABILITY	A	G
0 REACTIVITY	B	H
X PERSONAL PROTECTION	C	I
	D	J
	E	K
	F	X Ask your supervisor for special handling instructions.

15.6. SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65	California Proposition 65
OSHA (O)	Occupational Safety and Health Administration
ACGIH (G)	American Conference of Governmental Industrial Hygienists <ul style="list-style-type: none"> • A1 – Confirmed human carcinogen • A2 – Suspected human carcinogen • A3 – Animal carcinogen • A4 – Not classifiable as a human carcinogen • A5 – Not suspected a human carcinogen
IARC (I)	International Agency for Research on Cancer <ul style="list-style-type: none"> • 1 – The agent (mixture) is carcinogenic to humans • 2A – The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals. • 2B – The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals. • 3 – The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.



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	<ul style="list-style-type: none">• 4 – The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.
NTP (N)	National Toxicology Program <ul style="list-style-type: none">• 1 – Known to be carcinogens• 2 – Reasonably anticipated to be carcinogens

Section 16: OTHER INFORMATION

Date of Preparation: July 7, 2017

Version: 1.4

Revision Date: June 10, 2020

Disclaimer: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

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End of Safety Data Sheet