

Section 1: Product and Company Identification

Material Name: Trufast Roofing Adhesive Tanks – Part B
Chemical Family: Resin
Product Use: Polyurethane Component/Industrial Chemicals

Recommended use*: polyurethane component; industrial chemicals
 Suitable for use in industrial sector: Polymers industry; chemical industry
 Unsuitable for use: Uses other than recommended

* The "Recommended use" identified for this product is provided solely to comply with a federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Supplier Information:

Altenloh Brinck and Co.
 02105 County Road 12C
 Bryan OH 43506, USA
 Phone: 800-443-9602

24 Hour Emergency Contact Information:

CHEMTREC: 1-800-424-9300
 CCN # 838620

Section 2: Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

2.1 Classifications

Gases under pressure
 Skin Sensitization
 Germ Cell Mutagenicity
 Reproductive Toxicity
 Reproductive Toxicity
 Specific Target Organ Toxicity
 Specific Target Organ Toxicity
 Gases under pressure
 Simple Asphyxiant

Hazard Category

Compressed Gas
 1
 2
 1B (fertility)
 1B (unborn child)
 2 repeated exposure
 1 repeated exposure
 Compressed Gas
 Simple Asphyxiant (1)

2.2 Label elements

Hazard Symbols:



Signal Word: Danger



Hazard Statements:

- H280: Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.
- H317: May cause an allergic skin reaction.
- H341: Suspected of causing genetic defects.
- H360: May damage fertility. May damage the unborn child.
- H373: May cause damage to organs (Kidney, Thymus gland) through prolonged or repeated exposure.
- H372: Causes damage to organs (Kidney, Thymus gland) through prolonged or repeated exposure.

Precautionary Statements (Prevention):

- P280: Wear protective gloves.
- P260: Do not breathe dust/gas/mist/vapors.
- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P270: Do not eat, drink, or smoke when using this product.
- P264: Wash contaminated body parts thoroughly after handling.
- P272: Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements (Response):

- P308 + P313: If exposed or concerned: Get medical attention.
- P302 + P352: If on skin: Wash with plenty of soap and water.
- P333 + P311: If skin irritation or rash occurs: Get medical attention.
- P362 + P364: Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):

- P410 + P403: Protect from sunlight. Store in a well-ventilated place.
- P405: Store locked up.

Precautionary Statements (Disposal):

- P501: Dispose of contents and container to hazardous or special waste collection Point according to federal, state, and local regulations.



Hazards not otherwise classified

No specific dangers known, if the regulations/recommendations for storage and handling are considered.

Section 3: Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Ingredient	CAS Number	Weight %
Diethylene Glycol	111-46-6	1-3%
Stannane, dibutylbis(dodecylthio)-	1185-81-5	0.3-3%
1-Dodecanethiol	112-55-0	0-0.1%
Trans-1,3,3,3-Tetrafluoroprop-1-ene	29118-24-9	10-25%
Nitrogen	7727-37-9	0-1%

Section 4: First-Aid Measures**4.1 Description of first aid measures****General advice:**

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

Rinse immediately for at least 15 minutes with plenty of water with eyelids held open.

If swallowed:

Rinse mouth and then drink 200-300 ml of water. Immediate medical attention required.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: allergic contact dermatitis, Ingestion may provoke the following symptoms:, kidney damage

Information on: diethylene glycol

Symptoms: *Overexposure may cause:, vomiting, coma, abdominal cramps, lethargy, nausea, diarrhea, headache*

Information on: 1-Dodecanethiol

Symptoms: *Overexposure may cause:, corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, allergic contact dermatitis, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps, Ingestion may provoke the following symptoms:, asphyxia, choking, respiratory arrest, circulatory collapse, death*

Additional Hazards: Symptoms can appear later.

4.3 Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Section 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: water spray, dry powder, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons: water jet

5.2 Special hazards arising from the substance or mixture

Hazards during firefighting: No particular hazards known.

5.3 Advice for fire-fighters

Protective equipment for firefighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information: Keep containers cool by spraying with water if exposed to fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable personal protective clothing and equipment. High risk of slipping due to leakage/spillage of product

6.2 Environmental precautions

Do not discharge into drains/surface waters/groundwater/subsoil/soil.

6.3 Methods and material for containment and cleaning up

Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose in accordance with federal, state, and local regulations.

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Section 7: Handling and Storage

7.1 Precautions for safe handling

Keep cylinders (valves) closed tightly during transport and storage. Do not puncture as contents are under pressure. Protect from moisture and sunlight. Avoid inhalation of dusts/mists/vapors during application and only use product in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Wear protective equipment as required. Do not reuse cylinders for any purpose.

Protection against fire and explosion: No special precautions necessary. Contents under pressure. Extreme temperatures (>170° F) can cause cylinders to rupture or explode

Storage stability: Protect against freezing. Do not store above 95°F. The stated temperature limit is noted for health and safety in the workplace. To maximize product shelf life, ideal storage temperature is 55-90° F.

Section 8: Exposure Controls/Personal Protection

8.1 Components with occupational exposure limits

Ingredient	CAS Number	OSHA-PEL	ACGIH-TWA	ACGIH-STEL	Other
1-Dodecanethiol	112-55-0	None Listed	0.1ppm	None Listed	
Stannane, dibutylbis(dodecylthio)-	1185-81-5	0.1 mg/m ³	0.1 mg/m ³	0.2 mg/m ³	
Trans-1,3,3,3-Tetrafluoroprop-1-ene	29118-24-9	None Listed	None Listed	None Listed	800 ppm

8.2 Personal protective equipment

Engineering Controls: Provide adequate ventilation to control vapors/mists and maintain personal exposure limits. Do not eat, drink, or use tobacco while working.

Eye Protection: Wear safety glasses with side shields, chemical goggles, or face shield.

Hand/Body Protection: Wear protective gloves and clothing to prevent all skin contact. Suitable glove materials may include, chloroprene rubber (Neoprene), nitrile rubber (Buna N), chlorinated polyethylene, polyvinylchloride (Pylox), butyl rubber, depending upon conditions of use. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.

Respiratory protection: When workers are facing concentrations above the occupational exposure limits (PEL, TLV, REL, ect.) they must use appropriate certified respirators. NIOSH-certified air-purifying respirators equipped with an organic vapor sorbent and particulate filter can be used as long as appropriate precautions and change out schedules are in place.

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Section 9: Physical and Chemical Properties

Form:	Liquid
Odor:	Of polyol
Color:	Black
pH Value:	>=7
Freezing Point:	0° C
Boiling Point:	>140° C
Flash Point:	> 200° C (open cup)
Flammability:	Not flammable
Lower Explosion Limit:	5 - 15° C below flash point
Autoignition:	> 250° C
Vapor Pressure:	<0.1 hPa (25° C)
Density:	1.002 g/cm ³ (20° C)
Relative Density:	No applicable information available
Vapor Density:	Not applicable information available
Self-ignition Temp:	Not classified as self-igniting
Thermal Decomposition:	No decomposition if stored and handled as prescribed
Viscosity, Dynamic:	250.00 mPa.s (25° C)
Viscosity, Kinematic:	No applicable information available
Solubility in Water:	Partly Soluble
Evaporation Rate:	Value can be approximated from Henry's Law Constant

Section 10: Stability and Reactivity**10.1 Reactivity**

Corrosion to metals: No corrosive effect on metal.

Oxidizing properties: Not fire propagating.

10.2 Chemical stability

The product is stable if stored and handled as prescribed/indicated in section 7.

10.3 Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4 Conditions to avoid

Temperatures below 0° C (32° F).

10.5 Incompatible materials

Acids, oxidizing agents, isocyanates



10.6 Hazardous decomposition products

Decomposition products: Hazardous decomposition products: carbon monoxide, carbon dioxide, hydrogen cyanide, nitrogen oxides.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Section 11: Toxicological Information

11.1 Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

11.2 Acute Toxicity/Effects

Assessment of acute toxicity: No known acute effects.

Assessment other acute effects/ STOT single: Based on available information there is no specific organ toxicity to be expected after a single exposure.

Origin of data: expert judgement.

Irritation / corrosion: Assessment of irritating effects: No irritation is expected under intended use and appropriate handling.

Information on: Stannane, dibutylbis(dodecylthio)-

Assessment of irritating effects: Not irritating to eyes and skin.

Assessment of sensitization: Sensitization after skin contact possible.

Information on: Stannane, dibutylbis(dodecylthio)-

Assessment of sensitization: sensitizing effect in animal tests

Aspiration Hazard: No aspiration hazard expected.

11.3 Chronic Toxicity/Effects

Assessment of repeated dose toxicity: Repeated exposure may affect certain organs. Repeated exposure to small quantities may affect certain organs.

Information on: diethylene glycol

Assessment of repeated dose toxicity: The substance may cause damage to the kidney after repeated ingestion of high doses, as shown in animal studies. The effects were only observed at doses/concentrations not relevant for classification and/or practical use conditions. These effects are not relevant to humans at occupational levels of exposure.

The substance may cause damage to the liver after repeated ingestion.

Information on: Stannane, dibutylbis(dodecylthio)-

Assessment of repeated dose toxicity: Repeated exposure to small quantities may affect certain organs.

Genetic toxicity: Mutagenic properties cannot be excluded on the basis of experimental data.

Information on: Stannane, dibutylbis(dodecylthio)-

Assessment of mutagenicity: Mutagenic properties cannot be excluded on the basis of experimental data.

Carcinogenicity: The chemical structure does not suggest a specific alert for such an effect. No applicable information available.

Reproductive toxicity: Causes impairment of fertility in laboratory animals.

Information on: Stannane, dibutylbis(dodecylthio)-

Assessment of reproduction toxicity: Causes impairment of fertility in laboratory animals. The results of animal studies suggest a fertility impairing effect.

Teratogenicity: The substance caused malformations/developmental toxicity in laboratory animals.

Information on: Stannane, dibutylbis(dodecylthio)-

Assessment of teratogenicity: No data available.

Other Information: The product has not been tested. The statement has been derived from the properties of the individual components.

Medical conditions aggravated by overexposure

Individuals with allergic history or pre-existing dermatitis should use extra precautions when handling this product. The substance may cause sensitization of the skin in particularly sensitive individuals.



Section 12: Ecological Information

Aquatic toxicity: There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

Persistence and degradability: Assessment of biodegradation and eliminations: Poorly biodegradable.

Bioaccumulative potential: Significant accumulation in organisms is not to be expected.

Mobility in soil: Adsorption to solid soil phase is not expected.

Additional Information: Adsorbable organically-bound halogen(AOX): This product contains no organically-bound halogen.

Other ecotoxicological advice: The product has not been tested. Do not discharge product into the environment without control.

Section 13: Disposal Considerations

Disposal of waste chemical: Dispose of in a licensed facility according to federal, state, and local hazardous waste regulations. Do not discharge chemical into sewer system or allow to contaminate soil.

Disposal of empty container/canister/cylinder/tanks and dispense gun:

1. Discharge canisters with included dispense gun and mix tip as foam completely into a waste container until one canister is empty of material.
2. Remove dispense gun manifold and discharge residual chemical into a sealed waste container (ie: plastic bucket) until residual chemical and gas are evacuated and both canisters are depressurized.
3. Dispose of empty canisters, dispense gun, and hoses according to federal, state, and local regulations for the treatment of hazardous and nonhazardous wastes. Consult your local waste disposal service for guidance.
4. Dispose of captured residual chemical in a licensed facility according to applicable federal, state, and local regulations. Do not discharge chemical into sewer system or allow to contaminate soil.

Section 14: Transport Information

Land transport:	USDOT
Hazard class:	2.2
ID number:	UN 3500
Hazard label:	2.2
Proper shipping name:	CHEMICAL UNDER PRESSURE, N.O.S. (contains TRANS- 1,3,3,3-TETRAFLUOROPROP-1-ENE, NITROGEN)

Sea transport: IMDG
Hazard class: 2.2
ID number: UN 3500
Hazard label: 2.2
Marine pollutant: NO
Proper shipping name: CHEMICAL UNDER PRESSURE, N.O.S. (contains TRANS- 1,3,3,3-TETRAFLUOROPROP-1-ENE, NITROGEN)

Air transport: IATA/ICAO
Hazard class: 2.2
ID number: UN 3500
Hazard label: 2.2
Proper shipping name: CHEMICAL UNDER PRESSURE, N.O.S. (contains TRANS- 1,3,3,3-TETRAFLUOROPROP-1-ENE, NITROGEN)

Further information:

DOT: This product is regulated if the amount in a single receptacle exceeds the Reportable Quantity (RQ). Please refer to Section 15 of this SDS for the RQ for this product.

Section 15: Regulatory Information

15.1 Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

15.2 State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
PA	111-46-6	diethylene glycol

NFPA Hazard codes:

Health: 1 Fire: 1 Reactivity: 1 Special:

HMIS III rating:

Health: 2½ Flammability: 1 Physical hazard: 1



Section 16: Other Information

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA, OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA, AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

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