



TERRAFUSE INC.

## Safety Data Sheet TF Polyaspartic Tint-Dark Brown

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### SECTION 1: Identification

#### 1.1 Product identifier

Product name	TF Polyaspartic Tint-Dark Brown
Product number	4007

#### 1.2 Other means of identification

TF Dark Brown Tint

#### 1.3 Recommended use of the chemical and restrictions on use

Used as a liquid tint for Terrafuse Brand Polyaspartic and Epoxy coatings. Do not use alone as a chemical coating, product must be mixed into a polymer system.

#### 1.4 Supplier's details

Name	Terrafuse Inc.
Address	1325 Hastings Cres. SE Calgary AB T2G 4C8 Canada
Telephone	403-243-3000
Fax	403-243-3050
email	info@terrafuse.ca

#### 1.5 Emergency phone number(s)

CANUTEC 1-888-CANUTEC (226-8832)  
CHEMTREC USA 800-424-9300

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### SECTION 2: Hazard identification

#### General hazard statement

If product is in liquid or paste form, hazards related to dust are not considered significant. But product may contain substances that could be potential hazards if caused to become airborne due to abrasive processes.

#### 2.1 Classification of the substance or mixture

**GHS classification in accordance with: OSHA (29 CFR 1910.1200)**

- Flammable liquids, Cat. 3

#### 2.2 GHS label elements, including precautionary statements

**Pictogram**

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### Signal word

### Warning

#### Hazard statement(s)

H226  
H372

Flammable liquid and vapor  
Causes damage to organs [central nervous system] through prolonged or repeated exposure

#### Precautionary statement(s)

P201  
P202  
P210  
P233  
P240  
P241  
P242  
P243  
P260  
P264  
P270  
P280  
P303+P361+P353

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Do not breathe fume/gas/mist/vapors/spray.  
Wash hands or contacted areas thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF exposed or concerned: Get medical advice/attention.  
Get medical advice/attention if you feel unwell.  
In case of fire: Use Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>) to extinguish.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container according to local regulations.

P308+P313  
P314  
P370+P378

P403+P235  
P405  
P501

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

##### 1. 2-methoxy-1-methylethyl acetate

Concentration 15 - 40 % (weight), Trade secret  
EC no. 203-603-9  
CAS no. 108-65-6  
Index no. 607-195-00-7

- Flammable liquids, Cat. 3

H226 Flammable liquid and vapor

##### 2. Silica, crystalline

Concentration 1 - 5 % (weight), Trade secret  
EC no. 238-878-4  
CAS no. 14808-60-7

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- Carcinogenicity, Cat. 1A
- Specific target organ toxicity (repeated exposure), Cat. 1

### Trade secret statement (OSHA 1910.1200(i))

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

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## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice	Consult a physician/doctor if necessary. Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Remove and contaminated clothing immediately. Show this material safety data sheet to the doctor in attendance.
If inhaled	If overcome by exposure, remove victim to fresh air immediately. Administer oxygen or artificial respiration as needed. Call a physician if symptoms persist or worsen.
In case of skin contact	Remove contaminated clothing and shoes. Flush affected area with large amounts of water and soap. Get medical advice/attention if patient feels unwell, or irritation develops. Wash clothing before reuse.
In case of eye contact	Immediately flush with plenty of running water for at least 15 minutes, occasionally holding eyelids apart. If eye irritation persists: Get medical advice/attention.
If swallowed	Rinse mouth. Obtain emergency medical attention, or contact poison control center.
Personal protective equipment for first-aid responders	Use gloves, and eye protection if potential for chemical exposure exists. Remove victim to fresh air, and remove any contaminated clothing.

### 4.2 Most important symptoms/effects, acute and delayed

Narcosis. Behavioral changes. Decrease in motor functions. Direct contact with eyes may cause temporary irritation. Prolonged exposure may cause chronic effects.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

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## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).  
Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2 Specific hazards arising from the chemical

Releases flammable vapors below normal ambient temperatures. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Flammable vapors may be heavier than air and travel long

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distances along the ground before igniting and flashing back to vapor source. Move containers from fire area if it can be done without risk.

Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

Always stay away from tanks engulfed in fire.

Distillates, petroleum, hydrotreated light: Carbon oxides may be released during a fire.

#### 5.3 Special protective actions for fire-fighters

Wear full protective clothing and self-contained breathing apparatus. Use water spray to keep fire exposed containers cool.

#### Further information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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.

### 6.2 Environmental precautions

Prevent this product from entering water courses or drainage system. Do not flush to sewer. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and materials for containment and cleaning up

Flammable. Eliminate all sources of ignition. All equipment used when handling this product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. Dike large spills and place materials in salvage containers. Water spray may reduce vapor; but may not prevent ignition in closed spaces.

For small quantities, wipe off with cloth or paper, and wash affected area with water and detergent.

For large quantities, recover by taking up mechanically or with and inert absorbent material such as waste cloth, dry sand or soil.

Wash residue with water and detergent.

#### Reference to other sections

See Sections 8 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if

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possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

### 7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials, Strong oxidizing agents. (see Section 10 of the SDS).

### Specific end use(s)

To be mixed with TF Polyaspartics or TF Epoxy resins only, and used as a concrete coating.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 1. 2-methoxy-1-methylethyl acetate (CAS: 108-65-6)

STEL: 75 ppm; Canada OELs

#### 2. Silica, crystalline (CAS: 14808-60-7 EC: 238-878-4)

PEL-TWA (Inhalation): 10 mg/m<sup>3</sup> / (% Silica + 2) respirable 30 mg/m<sup>3</sup> / (% Silica + 2) total (OSHA)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 0.05 mg/m<sup>3</sup> (Cal/OSHA)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): Ca 0.05 mg/m<sup>3</sup> (NIOSH)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

TLV® (Inhalation): 0.025 mg/m<sup>3</sup> (resp.) for α-quartz and cristobalite (ACGIH)

TWA (Inhalation): 0.025 mg/m<sup>3</sup>; Canada OELs  
Respirable fraction

### 8.2 Appropriate engineering controls

Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Pictograms



#### Eye/face protection

Avoid eye contact by wearing safety goggles. Wear appropriate protective eyeglasses or chemical safety goggles as described by Canadian CSA Eye Protection Standard Z94.3-M1982, Industrial Eye and Face Protectors. It is recommended to wear Chemical respirator with organic vapor cartridge and full facepiece.

#### Skin protection

Avoid skin contact by wearing chemical resistant gloves (Viton is recommended). Follow OSHA's hand protection regulations in 29 CFR 1910.138. Wear suitable protective clothing. Use of an impervious apron is recommended.

#### Body protection

Where more extensive contact may occur, wear suitable protective clothing (e.g. apron, sleeves and boots). Follow Canadian CSA Foot Protection Standard Z195-M1984, Protective Footwear.

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### Respiratory protection

Wear respiratory protective equipment (organic vapor mask) if exposure to vapors is foreseen. Follow the Canadian CSA Respiratory Standard Z94.4-93-02.

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Thick dark brown liquid
Odor	Strong solvent odor (ether like)
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	289.4 °F (> 143 °C)
Flash point	116.0 °F (46.7 °C) Closed Cup
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable
Upper/lower flammability limits	Not available
Upper/lower explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility(ies)	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not explosive
Oxidizing properties	Not considered an oxidizing agent.

### Other safety information

Additional properties may be listed in Sections 2 and 5.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous decomposition products when stored and handled correctly. Hazardous polymerization does not occur.

### 10.4 Conditions to avoid

Heat, sparks, open flame, other ignition sources, and oxidizing conditions. Avoid temperatures exceeding 116.0 °F (46.7 °C).

### 10.5 Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases, Amines  
Silica, crystalline : Hydrogen fluoride

### 10.6 Hazardous decomposition products

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No hazardous decomposition products are known.

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### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

Not known.

##### Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

##### Serious eye damage/irritation

Direct contact with eyes may cause temporary irritation.

##### Respiratory or skin 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

Risk of cancer cannot be excluded with prolonged exposure.

ACGIH Carcinogens

Silica, Crystalline, Quartz (CAS 14808-60-7) A2 Suspected human carcinogen.

Canada - Alberta OELs: Carcinogen category

Silica, Crystalline, Quartz (CAS 14808-60-7) Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Silica, Crystalline, Quartz (CAS 14808-60-7) Suspected human carcinogen.

Canada - Quebec OELs: Carcinogen category

Silica, Crystalline, Quartz (CAS 14808-60-7) Suspected carcinogenic effect in humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Silica, Crystalline, Quartz (CAS 14808-60-7) 1 Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

Silica, Crystalline, Quartz (CAS 14808-60-7) Known To Be Human Carcinogen.

##### Reproductive toxicity

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

##### Summary of evaluation of the CMR properties

Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

Prolonged exposure may cause chronic effects.

##### STOT-single exposure

Not classified.

##### STOT-repeated exposure

Not classified.

##### Aspiration hazard

Not an aspiration hazard.

May be harmful if swallowed and enters airways.

##### Additional information

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

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### SECTION 12: Ecological information

#### Toxicity

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.

#### Aquatic

Crustacea EC50 Daphnia 17772.5117 mg/l, 48 hours estimated

Fish LC50 Fish 13727.7129 mg/l, 96 hours estimated

#### Persistence and degradability

No data is available on the degradability of this product.

#### Bioaccumulative potential

Not available

#### Mobility in soil

Not available

#### Results of PBT and vPvB assessment

Not 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.

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### SECTION 13: Disposal considerations

#### Disposal of the product

Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes. Comply with applicable federal/national, state/provincial, and local regulations.

#### Disposal of contaminated packaging

Empty containers retain this product and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or exposure such containers to heat, flame, sparks, static, electricity or other sources of ignition. The containers should be disposed of according to local regulations.

#### Waste treatment

Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes. Comply with applicable federal/national, state/provincial, and local regulations.

#### Sewage disposal

Do not dispose of in drains.

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### SECTION 14: Transport information

#### DOT (US)

UN Number: 1263

Class: 3

Packing Group: III

Proper Shipping Name: Paint related material

#### IMDG



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UN Number: 1263  
Class: 3  
Packing Group: III  
Proper Shipping Name: Paint Related materials  
Marine pollutant: No  
EMS Number 1: F-E  
EMS Number 2: S-E  
Marine Pollutant: No

### IATA

UN Number: 1263  
Class: 3  
Packing Group: III  
Proper Shipping Name: Paint related materials

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### New Jersey Right To Know Components

Common name: SILICA, QUARTZ  
CAS number: 14808-60-7

#### Massachusetts Right To Know Components

Chemical name: Quartz  
CAS number: 14808-60-7

#### California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.  
Quartz  
CAS-No. 14808-60-7

#### Pennsylvania Right To Know Components

Chemical name: Quartz  
CAS number: 14808-60-7

#### California Prop. 65 components

Chemical name: Silica, crystalline  
CAS number: 14808-60-7  
10/01/1988 - Cancer

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## SECTION 16: Other information

Date of revision: March 28, 2019  
Updates were made to the components section

### 16.1 Further information/disclaimer

NOTE: 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 chemicals contained in our products.

### 16.2 Preparation information

**Safety Data Sheet**  
**TF Polyaspartic Tint-Dark Brown**

Prepared by:  
Terrafuse Inc.  
[www.terrafuse.ca](http://www.terrafuse.ca)  
1-855-243-8080