



TERRAFUSE INC.

## Safety Data Sheet TF Polyaspartic Tint-White

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### SECTION 1: Identification

#### 1.1 Product identifier

Product name	TF Polyaspartic Tint-White
Product number	4009

#### 1.2 Other means of identification

TF White 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

#### 2.1 Classification of the substance or mixture

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

- Specific target organ toxicity (repeated exposure), Cat. 1
- Flammable liquids, Cat. 3
- Germ cell mutagenicity, Cat. 1B
- Toxic to reproduction, Cat. 1B

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

Pictogram

# Safety Data Sheet

## TF Polyaspartic Tint-White



### Signal word

**Danger**

### Hazard statement(s)

H226  
H340  
H360  
H372

Flammable liquid and vapor  
May cause genetic defects  
May damage fertility or the unborn child  
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  
  
P308+P313  
P314  
P370+P378  
  
P403+P235  
P405  
P501

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.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

##### 1. Titanium(IV) oxide

Concentration 60 - 80 % (weight), Trade secret  
EC no. 236-675-5  
CAS no. 13463-67-7

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

Concentration 10 - 30 % (weight), Trade secret  
EC no. 203-603-9  
CAS no. 108-65-6  
Index no. 607-195-00-7

- Flammable liquids, Cat. 3

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H226

Flammable liquid and vapor

### 3. Distillates, petroleum, hydrotreated light

Concentration 5 - 10 % (weight), Trade secret  
EC no. 265-149-8  
CAS no. 64742-47-8

- Aspiration hazard, Cat. 1
- Flammable liquids, Cat. 4
- Hazardous to the aquatic environment, long-term (chronic), Cat. 2
- Specific target organ toxicity (single exposure), Cat. 3
- Skin corrosion/irritation, Cat. 2

H227

Combustible liquid

H304

May be fatal if swallowed and enters airways

H315

Causes skin irritation

H335

May cause respiratory irritation

H336

May cause drowsiness or dizziness

H411

Toxic to aquatic life with long lasting effects

### 4. Aluminum hydroxide

Concentration 5 - 10 % (weight), Trade secret  
EC no. 244-492-7  
CAS no. 21645-51-2

### 5. Solvent naphtha (petroleum), medium aliph

Concentration 5 - 10 % (weight), Trade secret  
EC no. 265-191-7  
CAS no. 64742-88-7  
Index no. 649-405-00-X

- Aspiration hazard, Cat. 1
- Specific target organ toxicity (repeated exposure), Cat. 1

H304

May be fatal if swallowed and enters airways

H372

Causes damage to organs [organs] through prolonged or repeated exposure [route]

### 6. Silica gel, 60 angstroms

Concentration 5 - 10 % (weight), Trade secret  
CAS no. 112926-00-8

### 7. 2-methoxypropyl acetate

Concentration 0.1 - 1 % (weight), Trade secret  
EC no. 274-724-2  
CAS no. 70657-70-4  
Index no. 607-251-00-0

- Flammable liquids, Cat. 3
- Toxic to reproduction, Cat. 1B

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- Specific target organ toxicity (single exposure), Cat. 3

H226  
H335  
H360D

Flammable liquid and vapor  
May cause respiratory irritation

### 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

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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 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

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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 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. Solvent naphtha (petroleum), medium aliph (CAS: 64742-88-7)

TWA: 200mg/m<sup>3</sup>; US (ACGIH)

Non-aerosol

#### 2. Aluminum hydroxide (CAS: 21645-51-2)

TWA (Inhalation): 1 mg/m<sup>3</sup>; US (ACGIH)

Respirable fraction

#### 3. Titanium(IV) oxide (CAS: 13463-67-7)

TWA: 10 mg/m<sup>3</sup>; US (ACGIH)

#### 4. Solvent naphtha (petroleum), medium aliph (CAS: 64742-88-7)

TWA: 200 mg/m<sup>3</sup>; Canada OELs

Non Aerosol/Vapor

#### 5. Titanium(IV) oxide (CAS: 13463-67-7)

TWA: 10 mg/m<sup>3</sup>; Canada OELs

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

STEL: 75 ppm; Canada OELs

#### 7. Distillates, petroleum, hydrotreated light (CAS: 64742-47-8)

TWA: 200 mg/m<sup>3</sup>; Canada OELs

Non-aerosol

#### 8. Aluminum hydroxide (CAS: 21645-51-2)

TWA: 1 mg/m<sup>3</sup>; Canada OELs

Respirable fraction

#### 9. Silica gel, 60 angstroms (CAS: 112926-00-8)

TWA: 4 mg/m<sup>3</sup>; Canada OELs

Total

### 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

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### 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

Distillates (petroleum), hydrotreated light (CAS 64742-47-8) Can be absorbed through the skin.

Solvent naphtha (petroleum), medium aliph.; Straight run kerosine (CAS 64742-88-7) Can be absorbed through the skin.

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.

### 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 Grey 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	108.0 °F (42.2 °C) Closed Cup
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable
Upper/lower flammability limits	~ 1.26 vol%
Upper/lower explosive limits	~ 6.88 vol%
Vapor pressure	55.995 hPa at 20 °C
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

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## TF Polyaspartic Tint-White

### 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 108.0 °F (42.2 °C).

### 10.5 Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases, Amines

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Aluminum hydroxide (CAS 21645-51-2)

Acute

Oral LD50 Rat > 5000 mg/kg

#### 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

Canada - Alberta OELs: Irritant

Titanium dioxide (CAS 13463-67-7) Irritant

Respiratory sensitization: Not a respiratory sensitizer.

Skin sensitization: This product is not expected to cause skin sensitization.

#### Germ cell mutagenicity

May cause genetic defects.

#### Carcinogenicity

Risk of cancer cannot be excluded with prolonged exposure.

ACGIH Carcinogens

Aluminum hydroxide (CAS 21645-51-2): A4 Not classifiable as a human carcinogen.

Solvent naphtha (petroleum), medium aliph.; Straight runkerosine (CAS 64742-88-7): A3 Confirmed animal carcinogen with unknown relevance to humans.

Titanium dioxide (CAS 13463-67-7): A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Aluminum hydroxide (CAS 21645-51-2) Not classifiable as a human carcinogen.



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Solvent naphtha (petroleum), medium aliph.; Straight run kerosine (CAS 64742-88-7) Confirmed animal carcinogen with unknown relevance to humans.

Titanium dioxide (CAS 13463-67-7) Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

### Reproductive toxicity

May damage the unborn child.

### 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

Causes damage to organs (central nervous system) through prolonged or repeated exposure.

### Aspiration hazard

Not an aspiration hazard.

May be harmful if swallowed and enters airways.

### Additional information

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 107.1984 mg/l, 48 hours estimated

Fish LC50 Fish 84.0596 mg/l, 96 hours estimated

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

Aquatic

Crustacea EC50 Water flea (Daphnia pulex) 2.7 - 5.1 mg/l, 48 hours

Fish LC50 Rainbow trout, donaldson trout 2.9 mg/l, 96 hours

(Oncorhynchus mykiss)

Titanium dioxide (CAS 13463-67-7)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) > 1000 mg/l, 48 hours

Fish LC50 Mummichog (Fundulus heteroclitus) > 1000 mg/l, 96 hours

### Persistence and degradability

No data is available on the degradability of this product.

### Bioaccumulative potential

Not available

### Mobility in soil

Not available

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### 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

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

#### California Prop. 65 Components

Titanium dioxide (airborne, unbound particles of respirable size)

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## TF Polyaspartic Tint-White

WARNING! This product contains a chemical known to the State of California to cause cancer.  
Titanium dioxide  
CAS-No. 13463-67-7

### New Jersey Right To Know Components

Chemical name: Titanium dioxide  
CAS number: 13463-67-7

### Pennsylvania Right To Know Components

Chemical name: Titanium dioxide  
CAS number: 13463-67-7

### Massachusetts Right To Know Components

Distillates, petroleum, hydrotreated light  
CAS-No. 64742-47-8

### Pennsylvania Right To Know Components

Distillates, petroleum, hydrotreated light  
CAS-No. 64742-47-8

### New Jersey Right To Know Components

Distillates, petroleum, hydrotreated light  
CAS-No. 64742-47-8

### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

### New Jersey Right To Know Components

Aluminium hydroxide  
CAS-No. 21645-51-2

### Pennsylvania Right To Know Components

Aluminium hydroxide  
CAS-No. 21645-51-2

### New Jersey Right To Know Components

Common name: SILICA, AMORPHOUS, PRECIPITATE & GEL  
CAS number: 112926-00-8

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## SECTION 16: Other information

Date of revision: March 27, 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.

**Safety Data Sheet**  
**TF Polyaspartic Tint-White**

**16.2 Preparation information**

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