



TERRAFUSE INC.

Safety Data Sheet TF Fine Part B

SECTION 1: Identification

1.1 Product identifier

Product name TF Fine Part B

1.3 Recommended use of the chemical and restrictions on use

Used as an activator for the TF Fine Part A powder.

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)

In USA and Canada contact 1-888-CANUTEC (226-8832)

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

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

- Eye damage/irritation, Cat. 2A
- Corrosive to metals, Cat. 1
- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity (single exposure), Cat. 3

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word

Warning

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Hazard statement(s)

H290	May be corrosive to metals
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

Precautionary statement(s)

P234	Keep only in original container.
P261	Avoid breathing fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection/face protection/protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P390	Absorb spillage to prevent material-damage.
P406	Store in a corrosive resistant container with a resistant inner liner.
P501	Dispose of contents/container according to local regulations.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards which do not result in classification

None applicable

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Potassium phosphate dibasic

Concentration	15 - 40 % (weight), Trade secret
EC no.	231-834-5
CAS no.	7758-11-4

- Corrosive to metals, Cat. 1
- Eye damage/irritation, Cat. 2A
- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity (single exposure), Cat. 3

Trade secret statement (OSHA 1910.1200(i))

The concentrations have been listed in a range, as the formula is a trade secret

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

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General advice	Pre-existing skin, respiratory system or eye problems may be aggravated by prolonged contact.
If inhaled	If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.
In case of skin contact	Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.
In case of eye contact	If product enters the eyes, open eyes while under gentle running water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention.
If swallowed	If large quantities of this product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.
Personal protective equipment for first-aid responders	Wear gloves and eye protection when near the product.

4.2 Most important symptoms/effects, acute and delayed

Exposure to skin and eyes may cause immediate or delayed irritation.

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

Exposure to skin and eyes may cause immediate or delayed irritation. Follow recommendations for treatment found in this section above.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

product is not combustible. Use extinguishing agent suitable for surrounding fire.

5.2 Specific hazards arising from the chemical

Oxides of phosphorus and oxides of potassium may form during a fire.

5.3 Special protective actions for fire-fighters

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

To prevent skin and eye contact under the foreseeable conditions of use, wear appropriate protective clothing and safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Handle in a wellventilated work area.

6.2 Environmental precautions

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Construct a dike to prevent spreading of dilution water. If possible, prevent entry to sewers, storm drains, surface waters, and soils.

6.3 Methods and materials for containment and cleaning up

SMALL SPILL: Absorb material with rags, floor absorbent, vermiculite, or other absorbent material and transfer to an appropriate container.

LARGE SPILL: Dike the area of the spill to prevent spreading. The material may then be taken up with vacuum or absorbent material and transferred to appropriate containers.

Notify proper authorities if required by local, state, or federal regulations.

Dispose of in accordance with applicable local procedures (see Section 13, Disposal Considerations)

SECTION 7: Handling and storage

7.1 Precautions for safe handling

To prevent skin and eye contact under the foreseeable conditions of use, wear appropriate protective clothing and safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Handle in a well ventilated work area.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from incompatible materials. Keep in a dry, well-ventilated area in closed containers. Protect containers from physical damage.

Incompatible materials: Strong oxidizing agents, aluminum.

Specific end use(s)

As an activator for TF Fine Part A.

SECTION 8: Exposure controls/personal protection

8.2 Appropriate engineering controls

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

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

Pictograms



Eye/face protection

Safety glasses or goggles are required. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166.

Skin protection

Gloves are required to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374

Body protection

Use body protect appropriate to task being performed. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU,

Respiratory protection

Not required for properly ventilated areas. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory

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Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

Thermal hazards

None

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Clear, slightly foggy liquid.
Odor	Slight smell of basic salt
Odor threshold	Not available
pH	8.7/9.4
Melting point/freezing point	Not available
Initial boiling point and boiling range	106°C (223°F) at mmHg
Flash point	Not applicable
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable
Upper/lower flammability limits	Not applicable
Upper/lower explosive limits	Not applicable
Vapor pressure	(mm Hg @ 20°C (68°F): 0.1 mmHg
Vapor density	Not available
Relative density	Not available
Solubility(ies)	In water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not applicable
Oxidizing properties	None

Other safety information

No additional information available at this time.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under conditions of normal storage and use.

10.3 Possibility of hazardous reactions

Will not occur.

10.4 Conditions to avoid

None known

10.5 Incompatible materials

Strong oxidizing agents.

Aluminum

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10.6 Hazardous decomposition products

Potassium phosphate dibasic: Oxides of phosphorus and oxides of potassium

In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute Toxicity Category 4- Oral

Skin corrosion/irritation

Skin Irritation Category 2

Serious eye damage/irritation

Eye Irritation Category 2

Respiratory or skin sensitization

Based on available data, the classification criteria are not met

Germ cell mutagenicity

Based on available data, the classification criteria are not met

Carcinogenicity

Based on available data, the classification criteria are not met

Reproductive toxicity

Based on available data, the classification criteria are not met

STOT-single exposure

Single Target Organ Toxicity – Single Exposure Category 3 – Respiratory System

STOT-repeated exposure

Based on available data, the classification criteria are not met

Aspiration hazard

Based on available data, the classification criteria are not met

Additional information

ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with the skin or eyes. The symptoms of overexposure are described in the following paragraphs.

ACUTE:

INHALATION: Vapors may cause upper respiratory tract irritation.

CONTACT WITH SKIN: Exposure to skin may cause redness or irritation.

EYE CONTACT: Can cause serious eye irritation.

INGESTION: Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea

CHRONIC: No data available

TARGET ORGANS: Acute: Skin, Respiratory System, Eyes

Chronic: No data available

SUSPECTED CANCER AGENT: Ingredients within this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

IRRITANCY OF PRODUCT: This product may be irritating to skin, eyes, and respiratory system.

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SENSITIZATION TO THE PRODUCT: No information available for this product

REPRODUCTIVE TOXICITY INFORMATION: No specific information is available concerning the effects of this product and its components on the human reproductive system.

SECTION 12: Ecological information

Toxicity

No specific data available on this product.

Persistence and degradability

No specific data available on this product.

Bioaccumulative potential

No specific data available on this product.

Mobility in soil

No specific data available on this product.

Results of PBT and vPvB assessment

No specific data available on this product.

Other adverse effects

No specific data available on this product.

SECTION 13: Disposal considerations

Disposal of the product

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, and those of Canada.

Disposal of contaminated packaging

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, and those of Canada.

Waste treatment

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, and those of Canada.

Sewage disposal

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, and those of Canada.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

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

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

New Jersey Right To Know Components

Dipotassium hydrogenorthophosphate

CAS-No. 7758-11-4

Pennsylvania Right To Know Components

Dipotassium hydrogenorthophosphate

CAS-No. 7758-11-4

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

SARA 311/312 Hazards

No SARA Hazards

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SECTION 16: Other information

This is the first revision of this SDS, for changes to the component reporting requirements.

Revised 3/19/2019

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 our products

16.2 Preparation information

Prepared by:

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