

SECTION 1: Identification

1.1. Identification

Product form : Substance
Trade name : TIMREX® C-THERM

1.2. Recommended use and restrictions on use

Recommended use : Electrical and thermal conductive additive, friction modifier, carbon carrier, lubricant, refractories.
Restrictions on use : No information available.

1.3. Supplier

Imerys Graphite & Carbon Switzerland Ltd.
Strada Industriale 12 6743 Bodio (Switzerland)
6743
T +41-918732010 - F +41-918732019
graphiteandcarbon.ch@imerys.com

1.4. Emergency telephone number

Emergency number : For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) : None
Signal word (GHS US) : None
Hazard statements (GHS US) : Not applicable
Precautionary statements (GHS US) : No information available.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name : TIMREX® C-THERM

Name	Product identifier	%
Graphite	(CAS-No.) 7782-42-5	>99,5

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor

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First-aid measures after skin contact	: Wash skin with mild soap and water. If irritation persists, consult a doctor.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: No information available.
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4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Foam, carbon dioxide, extinguishing powder, water spray jet, sand.
Unsuitable extinguishing media	: High volume water jet.

5.2. Specific hazards arising from the chemical

Reactivity in case of fire	: No information available.
Hazardous decomposition products in case of fire	: Toxic fumes may be released, such as carbon monoxide, carbon dioxide.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Evacuate personnel to a safe area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure adequate ventilation, especially in confined areas.
Personal Precautions, Protective Equipment and Emergency Procedures	: Use personal protective equipment as required.

6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Do not eat, drink or smoke during use. Wash thoroughly after handling.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Advise local authorities if considered necessary.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take action to prevent static discharges. Use personal protective equipment as required.
Hygiene measures	: Keep away from food, drink and animal feeding stuffs. Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust.
Local and general ventilation	: Ensure adequate ventilation, especially in confined areas.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a dry, cool and well-ventilated place. Keep container tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep only in original container.
Storage temperature	: No information available.
Material used in packaging/containers	: No information available.
Incompatible materials	: Fluorine, chlorine trifluoride.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Graphite (7782-42-5)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	2 mg/m ³ (all forms except graphite fibers-respirable particulate matter)
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (synthetic-total dust) 5 mg/m ³ (synthetic-respirable fraction)
USA - IDLH - Occupational Exposure Limits	
US IDLH (mg/m ³)	1250 mg/m ³
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA) (mg/m ³)	2.5 mg/m ³ (natural-respirable dust)

8.2. Appropriate engineering controls

Appropriate engineering controls	: Remove all sources of ignition. Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves (EN 374).

Eye protection:

Safety glasses with side shields (EN 166).

Skin and body protection:

Wear suitable protective clothing.

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. FFP2SL (EN 149).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Color	: Grey to black
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Melting point	: > 3000 °C (OECD 102)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available

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Relative density	: Ca. 2.2 (DIN 51901)
Solubility	: < 0.001 g/L
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: > 500 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Fluorine, chlorine trifluoride.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Graphite (7782-42-5)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423, CSR)
LD50 inhalation rat	> 2000 mg/L/4 h (Dust, OECD 403, CSR)

Skin corrosion/irritation	: Non-irritant (Rabbit, OECD 404, CSR)
Serious eye damage/irritation	: Non-irritant (Rabbit, OECD 405, CSR)
Respiratory or skin sensitization	: Respiratory tract: Non-sensitizing. Based on available data, the classification criteria are not met. (Mouse, OECD 429, CSR) Skin: Non-sensitizing. Based on available data, the classification criteria are not met. (Mouse, OECD 429, CSR)
Germ cell mutagenicity	: Based on available data, the classification criteria are not met. (Bacterial Reverse Mutation Test, OECD 471, CSR) Based on available data, the classification criteria are not met. (Mammalian cell gene mutation assay, OECD 476, CSR) Based on available data, the classification criteria are not met. (Mammalian chromosome aberration test, OECD 473, CSR)
Carcinogenicity	: Based on available data, the classification criteria are not met. (Waiving, CSR)
Reproductive toxicity	: Based on available data, the classification criteria are not met. (OECD 422, CSR)
STOT-single exposure	: Not classified

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STOT-repeated exposure	: Oral: NOAEL = 813 mg/kg Based on available data, the classification criteria are not met. (Rat, OECD 422, CSR) Inhalational: NOAEL = 12 mg/m ³ Based on available data, the classification criteria are not met. (Rat, OECD 412, CSR)
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Graphite (7782-42-5)	
LC50 fish 1	> 100 mg/L/96 h (Danio rerio, OECD 203, CSR)
EC50 Daphnia 1	> 100 mg/L/48 h (Daphnia magna, OECD 202, CSR)
EC50 algae 1	> 100 mg/L/72 h (Pseudokirchneriella subcapitata, OECD 201, CSR)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

Graphite (7782-42-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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15.2. International regulations

CANADA

Graphite (7782-42-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Graphite (7782-42-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Graphite (7782-42-5)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

No additional information available

SECTION 16: Other information

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Revision date : 07/02/2020
Data sources : ECHA. Loli.
Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.