



IMERYS
Graphite & Carbon

SAFETY DATA SHEET

OSHA 29 CFR HCS-2012 APPENDIX D TO §1910.1200

Version 1

Product Name TIMREX® C-THERM

Issue Date 29-May-2015

Revision date 29-May-2015

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name TIMREX® C-THERM

Other means of identification

Synonyms Graphite

Recommended use of the chemical and restrictions on use

Recommended Use Electrical and thermal conductive additive
Friction modifier
Carbon carrier
Lubricant
Refractory

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Imerys Graphite & Carbon Switzerland Ltd.
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Emergency telephone 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)

2. HAZARDS IDENTIFICATION

GHS Classification

Not classified

Label elements

Symbols/Pictograms None
Signal word None
Hazard Statements Not classified
Precautionary Statements
Prevention None
Response None
Storage None
Disposal None

Hazards not otherwise classified (HNOC)

No information available

Unknown acute toxicity

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature** Substance

Chemical Name	CAS No	Weight-%
Graphite	7782-42-5	> 95

4. FIRST AID MEASURES**Description of first aid measures**

General advice	If symptoms persist, call a physician. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Ingestion	Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Contact with the skin and eyes may cause mechanical irritation.
Inhalation of dusts may irritate the respiratory tract.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Extinguishing media**

Suitable extinguishing media	CO ₂ , dry chemical, dry sand, water spray or alcohol-resistant foam.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors
Carbon oxides (CO_x)

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation, especially in confined areas
Evacuate personnel to safe areas
Use personal protection recommended in Section 8
Avoid contact with skin, eyes or clothing
Do not touch or walk through spilled material

Remove all sources of ignition
 Avoid creating dust
 Extremely slippery when spilled.
 High risk of slipping due to the leakage/ spillage of product.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so
 Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust
 Take up mechanically, placing in appropriate containers for disposal

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice
 Ensure adequate ventilation, especially in confined areas
 Use personal protection recommended in Section 8
 Do not eat, drink or smoke when using this product
 Avoid contact with skin, eyes or clothing
 Remove contaminated clothing and shoes
 Wash contaminated clothing before reuse
 Wash thoroughly after handling
 Do not breathe dust/fume/gas/mist/vapors/spray
 Avoid generation of dust
 Take precautionary measures against static discharges
 Keep away from heat, sparks, flame and other sources of ignition
 Under certain circumstances fine dust clouds may form explosive mixtures with air.
 Dust should be aspirated immediately on-the-spot

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place
 Keep away from heat
 Store in accordance with local regulations

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Denmark	European Union
Graphite (CAS #: 7782-42-5)	TWA: 2 mg/m ³ respirable fraction all forms except graphite fibers	-	IDLH: 1250 mg/m ³ TWA: 2.5 mg/m ³ natural respirable dust	TWA: 2.5 mg/m ³	-

Chemical Name	Latvia	France	Finland	Germany	Italy
Graphite (CAS #: 7782-42-5)	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 1.5 mg/m ³ TWA: 4 mg/m ³	-

Chemical Name	Norway	United Kingdom	Australia	Austria	Belgium
Graphite (CAS #: 7782-42-5)	TWA: 5 mg/m ³ TWA: 2 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 5 mg/m ³ STEL: 2 mg/m ³ STEL: 10 mg/m ³ STEL: 4 mg/m ³	-	3 mg/m ³	STEL 10 mg/m ³ TWA: 5 mg/m ³	-

Appropriate engineering controls

Ventilation systems

Individual protection measures, such as personal protective equipment

Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hand Protection	Wear protective gloves.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Powder
Color	Grey to black
Odor	Odorless
Odor Threshold	Not determined
pH	Not determined
Melting point/freezing point	> 3000°C (OECD 102) >5432°F (OECD 102)
Boiling point / boiling range	Not determined
Flash point	Not applicable
Evaporation rate	Not determined
Flammability (solid, gas)	Not flammable
Flammability Limit in Air	Not determined
Vapor Pressure	Not applicable
Vapor density	Not determined
Density	appr. 18.36 lbs/gallon
Relative density	Not determined
Bulk density	Not determined
Specific gravity	Not determined
Water solubility	< 0.001 g/l (insoluble in water)
Partition coefficient (LogPow)	Not determined
Ignition temperature	> 500°C > 932°F
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not applicable
Explosive properties	Not an explosive
Oxidizing properties	No oxidising properties

Other information

No information available

10. STABILITY AND REACTIVITY

Reactivity

Stable under recommended storage and handling conditions (see SECTION 7, handling and storage).

Chemical stability

Stable under normal conditions

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Extremes of temperature

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Inhalation	Inhalation of dusts may irritate the respiratory tract.
Eye contact	Contact with the eyes may cause mechanical irritation.
Skin Contact	Contact with the skin may cause mechanical irritation.
Ingestion	No known effect based on information supplied

Information on toxicological effects**Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Graphite (CAS #: 7782-42-5)	> 2000 mg/kg (rat) (OECD 423)	-	> 2000 mg/m ³ /4h (rat) (OECD 403)

Skin corrosion/irritation

Non-irritant (OECD 404)

Serious eye damage/eye irritation

Non-irritant (OECD 405)

Sensitization

Non-sensitizing (OECD 429)

Germ cell mutagenicity

Negative (OECD 471)

Negative (OECD 476)

Negative (OECD 473)

Carcinogenicity

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

Reproductive toxicity

Negative (OECD 422)

STOT - single exposure

No information available

STOT - repeated exposure

NOAEL=813 mg/kg bw/d (rat, oral) (OECD 422)

NOAEC=12 mg/m³ (rat, inhalative) (OECD 412)

Aspiration hazard

Not applicable

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Graphite (CAS #: 7782-42-5)	> 100 mg/l/72h (Pseudokirchneriella subcapitata) (OECD 201)	> 100 mg/l/96h (Danio rerio) (OECD 203)	> 100 mg/l/48h (Daphnia magna) (OECD 202)

Persistence and degradability

No information available

Bioaccumulative potential

No information available

Mobility in soil

No information available

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations

Contaminated packaging Dispose of in accordance with federal, state and local regulations

14. TRANSPORT INFORMATION**DOT**

UN/ID No. Not regulated

Proper shipping name Not regulated

Hazard Class Not regulated

Packing Group Not regulated

Special precautions No information available

Marine pollutant Not applicable

15. REGULATORY INFORMATION**International Inventories**

Component	AICS	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	TSCA
Graphite 7782-42-5	X	X	X	-	X	X	X	X

"-" Not Listed

"X" Listed

US FEDERAL REGULATIONS**Toxic Substances Control Act (TSCA)**

Is listed on the TSCA inventory

OSHA: This product is not classified as hazardous in accordance with US OSHA Hazard Communication Standard 29 CFR 1910.1200.

US Federal Regulations**SARA Section 302 (RQ):**

Not listed

SARA 313

Not apply

SARA 311/312 Hazard Categories

Not apply

CWA (Clean Water Act)

Not listed.

CERCLA

Not apply

HAPS Hazardous Air Pollutants

Not listed.

HMIS Classification

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	C

US State Regulations**California Proposition 65**

Not listed.

New Jersey Worker and Community Right to Know Act.

Not listed.

Pennsylvania HAZARDOUS SUBSTANCE LIST

Not listed.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Graphite 7782-42-5	X	X	-

16. OTHER INFORMATION**Revision Note**

Issue Date	29-May-2015
Revision date	29-May-2015
Revision Note	Not applicable

Key or legend to abbreviations and acronyms used in the safety data sheet**TWA** - TWA (time-weighted average)**STEL** - STEL (Short Term Exposure Limit)**Ceiling** - Maximum limit value**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances**Disclaimer**

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----- End of Safety Data Sheet -----

