

Version 2

Product Name Timrex KS, SFG, SLP, SLS, T, T-SLC MX, MB, KC, MK, F, KL, MAA
C-nergy KS-L, SFG-L

Issue Date 29-May-2015
Revision date 14-May-2018

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

Product identifier

Product Name Timrex KS, SFG, SLP, SLS, T, T-SLC, MX, MB, KC, MK, F, KL, MAA
C-nergy KS-L, SFG-L

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.
Address	Strada Industriale 12 • 6743 Bodio • Switzerland
Phone	+41 91 873 20 10
FAX	+41 91 873 20 19
E-mail	graphiteandcarbon.ch@imerys.com
Importer	Imerys Graphite & Carbon Switzerland Ltd.
Address	Strada Industriale 12 • 6743 Bodio • Switzerland
Phone	+41 91 873 20 10
FAX	+41 91 873 20 19
E-mail	graphiteandcarbon.ch@imerys.com

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	> 99.5	

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 CO₂, 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) Not determined
Boiling point / boiling range	Not applicable Not determined
Flash point	Not flammable Not determined
Evaporation rate	Not determined Not applicable
Flammability (solid, gas)	Not applicable Not determined
Flammability Limit in Air	appr.
Vapor Pressure	18.36 lbs/gallon Not determined
Vapor density	determined
Density	Not determined
Relative density	Not determined
Bulk density	< 0.001 g/l (insoluble in water)
Specific gravity	Not determined
Water solubility	> 500°C
Partition coefficient (LogPow)	Not determined
Ignition temperature	Not determined
Decomposition temperature	Not applicable
Kinematic viscosity	Not an explosive
Dynamic viscosity	No oxidising properties
Explosive properties	
Oxidizing 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
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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)
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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/NDL	EINECS/ELI NCS	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.

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	14-May-2018
Revision Note	Revised Product name

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/NDSL - 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

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling,

use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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