

Safety Data Sheet

Prepared on 04/07/2016
This form is subject to changes

1. Identification of substance:

Product Name: Conductive Graphene Sheets
Product Number(s): GRAPH-SHEET, 5 pack; GRAPH-SHEET-8x8-10; GRAPH-SHEET-8x8-20

CAS-No. 7782-42- 5

Manufacturer/Supplier:

Graphene Supermarket
www.graphene-supermarket.com
Graphene Laboratories, Inc.
4603 Middle Country Rd. Unit 125
Calverton, NY11933
info@graphenelab.com
Phone: (516) 382-8649
Fax: (781) 287-1248

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS: NONE

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Composition : Graphene 97%

- Identification number(s):
- EC Number: 231-955-3 (Graphite Bulk)

4. FIRST AID MEASURES

• After inhalation

Supply fresh air. Seek medical advice if irritation persists.

• After skin contact

Immediately wash with warm water and mild soap and rinse thoroughly. Mechanical irritation of skin is possible.

• After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

• After ingestion

Get immediate medical attention. Rinse mouth with water but do not give water Do not induce vomiting unless directed by medical personnel.

• Indication of any immediate medical attention and special treatment needed: If patient exhibits shortness of breath, choking, powder inundated eyes or mouth; immediate medical attention may be required.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Special hazards: None known, products of combustion: In case of fire, the following can be released: Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

Use self-contained air pack, gloves, safety goggles

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

For personal protection see section 8.

6.2 Environmental precautions

Do not allow material to be released to the environment without proper governmental permits.

6.3 Methods and materials for containment and cleaning up

Collect mechanically, use a suitable tight container

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Provide good ventilation at the workplace.

7.2 Conditions for safe storage, including any incompatibilities

Store away from oxidizing agents. Store away from halogens. Do not store together with acids.

Keep container tightly sealed. Store in cool, dry conditions in well-sealed containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Graphite TWA 2 mg/m³

Appropriate engineering controls: The usual precautionary measures for handling chemicals should be followed.

8.2 Exposure controls

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes. Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such

as NIOSH (US) or EN 166(EU).

Approved dust mask, type N95 recommended. Under conditions where exposure levels are not under reasonable control a positive pressure air supplied respirator may be recommended.

Wear impervious clothing to minimize skin contact. No special glove composition is required for carbon black. Gloves may be used to protect hands from carbon black soiling. Use of a barrier cream may help to prevent skin drying. Wash hands and other exposed skin with mild soap and water.

Carbon black, spilled on pedestrian surfaces may pose a significant slip hazard.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- **Form:** Solid foil
- **Color:** Black
- **Odor:** Odorless
- **Change in condition:** No data available
- **Melting point/Melting range:** Sublimates at 3652C
- **Boiling point/Boiling range:** No data available
- **Sublimation temperature / start:** No data available
- **Flash point:** Not applicable
- **Ignition temperature:** No data available
- **Decomposition temperature:** No data available
- **Danger of explosion:** Product does not present an explosion hazard.
- **Lower Explosion limits:** No data available
- **Upper:** No data available
- **Vapor pressure:** No data available
- **Density:** No data available
- **Solubility in / Miscibility with Water:** Insoluble

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

Decomposition will not occur if used and stored according to specifications.

10.2 Chemical stability

Stable. Will not polymerize or self-react spontaneously.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Avoid contact with oxidizing agents.

10.5 Incompatible materials

All oxidizing agents

10.6 Hazardous decomposition products

Carbon Dioxide (CO₂), Carbon Monoxide (CO)

Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- **Acute oral toxicity:** Data not available
- **Acute inhalation toxicity:** Data not available
- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Do not allow material to be released to the environment without proper governmental permits.

12.2 Persistence and degradability

Not degradable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Dispose of in a manner which conforms to local, state, regional, and government regulations. Do not allow to enter sewers or natural waterways.

Contaminated packaging

Packaging should be completely emptied of contents and disposed of in a manner specified by the recycler/regional disposal contractor. Dust formation from packaging residues should be avoided. Store empty packaging in a suitable receptacle.

14. TRANSPORT INFORMATION

- **Product related hazard information:**
- **National regulations**

TSCA: None of the ingredients is listed.

Clean Air Act: None of the ingredients is listed.

Clean Water Act: None of the ingredients is listed.

- **Information about limitation of use:**

For use only by technically qualified individuals.

15. REGULATORY INFORMATION

Chemical Safety Assessment: No Chemical Safety Assessment has been carried out for this substance.

SARA 302 Components

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

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.

16. OTHER INFORMATION

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.