



GRAPHENE SUPERMARKET®

Safety Data Sheet

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

1. Identification of substance:

Product Name: Multi Walled Carbon Nanotubes

Product Number(s): MWNT-100G

CAS-No. 308068-56-6

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

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Eye irritation (Category 2A), H319

Carcinogenicity (Category 2), H351

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word (s): Warning

Hazard statement(s)

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H351: Suspected of causing cancer.

Precautionary statement(s)

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

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P264: Wash skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313: IF exposed or concerned: Get medical advice/ attention.

P337 + P313: If eye irritation persists: Get medical advice/ attention.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms: Carbon Nanotubes

• Identification number(s):

• EINECS Number: 231-955-3

4. First aid measures

• After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek medical advice.

• After skin contact

Immediately wash with water and soap and rinse thoroughly.

• After eye contact

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

• After swallowing

Rinse mouth for several minutes with water. Seek immediate medical advice.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Special hazards caused by the material, its products of combustion or resulting gases: In case of fire, the following can be released: Carbon monoxide (CO)

5.3 Advice for firefighters

Wear self-contained respirator. Wear fully protective impervious suit.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

8.2 Exposure controls

Exposure limit values (OSHA):

Graphite TWA 2 mg/m³

• General protective and hygienic measures

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

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

• Breathing equipment:

Use suitable respirator when high concentrations are present.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- **Form:** Solid
- **Color:** Black
- **Odor:** Odorless
- **Change in condition:** No data available
- **Melting point/Melting range:** No data available
- **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.
- **Explosion limits:** No data available
- **Lower:** No data available
- **Upper:** No data available
- **Vapor pressure:** No data available
- **Density:** No data available
- **Solubility in / Miscibility with Water:** none Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

• **Breathing equipment:**

Use suitable respirator when high concentrations are present.

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents



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10.6 Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- **Acute toxicity:**
- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Subacute to chronic toxicity:**

The inhalation of graphite, both natural and synthetic, has caused pneumoconiosis in exposed workers. The pneumoconiosis found is similar to coal worker's pneumoconiosis.

- **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

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.



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

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.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components

No components are subject to the Massachusetts Right to Know Act

New Jersey Right To Know Components

No components are subject to the Massachusetts Right to Know Act

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.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Carc: Carcinogenicity

Eye Irrit: Eye irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

H351: Suspected of causing cancer

STOT SE: Specific target organ toxicity - single exposure



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HMIS Rating

Health hazard: 2

Chronic Health Hazard:

Flammability: 0

Physical Hazard 0

NFPA Rating

Health hazard: 2

Fire Hazard: 0

Reactivity Hazard: 0

Further 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.