

# Graphene Oxide, Dispersion

Item #: 017

| Product:   | Graphene Oxide, Dispersion                                   |  |
|--|--|--|
| Distributor/ supplier/<br>manufacturer:                    | 1875 Connecticut Ave NW floor 10 Washington, DC 20009        |  |
| Phone number:  | 1 (540) 509-0318   |  |
| Relevant identified<br>uses of the substance<br>or mixture | Laboratory chemicals, industrial manufacturing of substances |  |

#### Hazards Identification

| Hazard Identification:  | -If dries, may cause eye, skin and respiratory tract irritation. |
|---|--|
| Hazard Statement(s)- GHS<br>Label elements, including<br>precautionary statements | -Not a hazardous substance or mixture.                           |
| Hazards not otherwise<br>Classified (HNOC) or not<br>covered by GHS               | -None.   |

## Composition / Information on Ingredients

| Mixtures:<br>Synonyms | Graphite- 100%, CAS Number: 7782-42-5, LD50 of ingredient: Oral-<br>Rodent 72 kg, I.C50¬ of ingredient: Inhalation- Rodent 75 kg |
|-----------------------|--|
| Synonyms              |  |



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#### First Aid Measures

|                         | In case of eye contact<br>Flush with plenty of water for 15 minutes as a precaution. Seek medical attention if<br>irritation develops.                                |
|-------------------------|---|
| First Aid               | In case of skin contact<br>Wash thoroughly with soap and plenty water. Seek medical attention if irritation develops.   |
| First Aid:              | If inhaled<br>If inhaled, move person into fresh air. If breathing is difficult, admin oxygen. If not<br>breathing, give artificial respiration. Consult a physician. |
|                         | If swallowed<br>Never give anything by mouth to an unconscious person. Rinse mouth with water   |
|                         | Ingestion<br>May cause nausea, vomiting and/or diarrhea.  |
| Effects of<br>Exposure: | Eyes<br>Moderately irritating to the eyes: redness, itching, irritation and watering.   |
|                         | Skin<br>May be irritating to skin. May cause allergic skin reactions in sensitive individuals.  |
|                         | Inhalation<br>None expected.  |

### Firefighting Measures

|                     | Means of extinction<br>Use water spray, alcohol resistant foam, dry chemical or carbon dioxide   |
|---------------------|--|
| Extinguishing Media | Special hazards arising from the substance or mixture<br>Not determined                          |
|                     | Advice for firefighters<br>Wear self-contained breathing apparatus for firefighting if necessary |

# Accidental Release Measure

| 1 | Personal precautions, protective equipment, and emergency procedures<br>Wear protective equipment. Keep the area well ventilated. |
|---|---|
| 2 | Environmental precautions<br>Do not allow material to be released to the environment.   |
| 3 | Methods and materials for containment and cleaning up<br>Collect mechanically, use a suitable tight container.                    |



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## Handling and Storage

| 1 | Precautions for safe handling<br>Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Provide good<br>ventilation at the workplace.                                   |
|---|--|
| 2 | Conditions for safe storage, including any incompatibilities<br>Store away from oxidizing agents, halogens. Do not store together with acids. Keep container<br>tightly sealed in cool dry conditions. |

## Exposure Controls/ Personal Protection

| Control parameters               | Components with workplace control parameters<br>None   |
|----------------------------------|--|
| Exposure Control                 | Appropriate engineering controls<br>General industrial hygiene practice<br>The general precautionary measures for handling any chemicals should be<br>followed.<br>Keep away from all food and drinks.<br>Remove all soiled and contaminated clothing immediately.<br>Wash hands before breaks and at the end of work.<br>Avoid contact with the eye and skin. |
| Personal Protective<br>equipment | Eye/face protection<br>Use safety glasses/ goggles<br>Skin protection<br>Handle with gloves and avoid all skin contact. Dispose contaminated<br>gloves after each use. Wash and dry hands<br>Body Protection<br>Wear protective work clothes<br>Respiratory protection<br>Use suitable respirator when high concentrations are present                         |



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## Physical and Chemical Properties

| Appearance                                   | Form: aqueous solution |
|--|------------------------|
| Color  | Brown                  |
| Odor   | Odorless               |
| Odor Threshold                               | Not determined         |
| рН   | ~6                     |
| Melting point/ freezing point                | Not determined         |
| Initial boiling point and boiling range      | Not determined         |
| Flash Point                                  | 300°C                  |
| Evaporation rate                             | Not determined         |
| Flammability (solid, gas)                    | Not determined         |
| Upper/lower flammability or explosive limits | Not determined         |
| Vapor pressure                               | Not determined         |
| Vapor density                                | Not determined         |
| Relative density                             | Not determined         |
| Partition Coefficient                        | Not determined         |
| Auto-ignition temperature                    | Not determined         |
| Decomposition temperature                    | Not determined         |
| Viscosity                                    | Not determined         |
| Explosive properties                         | Not determined         |
| Oxidizing properties                         | Not determined         |

# Stability and Reactivity

| Reactivity                         | Not determined                                   |
|------------------------------------|--|
| Chemical stability                 | Stable under recommended storage conditions      |
| Possibility of hazardous reactions | Not determined                                   |
| Conditions to avoid                | Not determined                                   |
| Incompatible material              | Oxidizing agents, acids, halogens, alkali metals |
| Hazardous decomposition products   | Carbon monoxide and carbon dioxide               |



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# Toxicological information



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## **Ecological Information**

| General notes                      | Do not allow material to be released to the environment without proper governmental permits |
|------------------------------------|---|
| Toxicity                           | Not determined  |
| Persistence and degradability      | Not determined  |
| Bio accumulative potential         | Not determined  |
| Mobility in soil                   | Not determined  |
| Results of PBT and vPvB assessment | Not applicable  |
| Other adverse effect               | Not determined  |

## **Disposal Considerations**

| Waste from residues/unused products: | Offer surplus and non-recyclable solution to a licensed disposal company |
|--------------------------------------|--|
| Contaminated packaging:              | Dispose of as unused product   |

### Transport Information

| DOT (US) | Not dangerous goods |
|----------|---------------------|
| IMDG     | Not dangerous goods |
| ΙΑΤΑ     | Not dangerous goods |

## Regulatory Information

| SARA 302 Components                       | None   |
|---|--|
| SARA 313 Components                       | None   |
| SARA 311/312 Hazards                      | No SARA Hazards  |
| Massachusetts Right to know<br>components | None   |
| Pennsylvania Right to Know<br>Components  | Water  |
| New Jersey Right to Know<br>Components    | Water  |
| 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. |



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### Other Information

| HMIS Rating | Health hazard: 0<br>Chronic health hazard:<br>Flammability: 0<br>Physical Hazard: 0 |
|-------------|---|
| NFPA Rating | Health Hazard: 0<br>Fire Hazard: 0<br>Reactivity Hazard: 0                          |