

## Graphene Oxide, Dispersion

Item #: 901444

<b>Product:</b>	Graphene Oxide, Dispersion
<b>Distributor/ supplier/ manufacturer:</b>	Nanotech Energy, Inc. 12100 Wilshire BLVD suite 800 Los Angeles, CA 90025
<b>Phone number:</b>	1 (800) 995-5491
<b>Relevant identified uses of the substance or mixture</b>	Laboratory chemicals, industrial manufacturing of substances

### Hazards Identification

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

### Composition / Information on Ingredients

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

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## First Aid Measures

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

## Firefighting Measures

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

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

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### Handling and Storage

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

### Exposure Controls/ Personal Protection

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

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### Physical and Chemical Properties

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

### Stability and Reactivity

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

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### Toxicological information

<p><b>Information on toxicological effects:</b></p>	<p><b>Acute toxicity</b> Not determined Inhalation: Not determined Dermal: Not determined</p> <p><b>Skin corrosion/ irritation</b> Irritant to skin and mucous membranes.</p> <p><b>Serious eye damage/ eye irritation</b> Irritating effect.</p> <p><b>Respiratory or skin sensitization</b> Not determined</p> <p><b>Germ cell mutagenicity</b> Not determined</p> <p><b>Sensitization</b> No sensitizing effects known</p> <p><b>Subacute to chronic toxicity:</b> The inhalation of graphite, both natural and synthetic, has caused pneumoconiosis in exposed workers. The pneumoconiosis found is similar to coal worker's pneumoconiosis.</p> <p><b>Carcinogenicity</b> IARC: None at the reporting limit. NTP: None at the reporting limit. OSHA: None at the reporting limit.</p> <p><b>Reproductive toxicity</b> Not determined</p> <p><b>Specific target organ toxicity- single exposure</b> Not determined</p> <p><b>Specific target organ toxicity- repeated exposure</b> Not determined</p> <p><b>Aspiration hazard</b> Not determined</p>
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### Ecological Information

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

### Disposal Considerations

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

### Transport Information

<b>DOT (US)</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods

### Regulatory Information

<b>SARA 302 Components</b>	None
<b>SARA 313 Components</b>	None
<b>SARA 311/312 Hazards</b>	No SARA Hazards
<b>Massachusetts Right to know components</b>	None
<b>Pennsylvania Right to Know Components</b>	Water
<b>New Jersey Right to Know Components</b>	Water
<b>California Prop. 65 Components</b>	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

<b>HMIS Rating</b>	Health hazard: 0 Chronic health hazard: Flammability: 0 Physical Hazard: 0
<b>NFPA Rating</b>	Health Hazard: 0 Fire Hazard: 0 Reactivity Hazard: 0