

## Graphene Oxide, Paste

Item #: Graphene Oxide Paste 6-8% water (901504)  
Graphene Oxide Paste 4-5% water (902100)

<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</b>	-Not a hazardous substance or mixture.
<b>Precautionary statements</b>	-Keep out of reach of children -Wash skin thoroughly after handling -Wash contaminated clothing before reuse -Absorb spillage to prevent material damage
<b>Hazards not otherwise Classified (HNOC) or not covered by GHS</b>	-None.

### Composition / Information on Ingredients

<b>Mixtures:</b> <b>Synonyms</b>	Graphite- 100%, CAS Number: 7782-42-5, LD50 of ingredient: Oral-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>Avoid inhalation of vapor or mist. 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

Appearance	Form: Hydro Paste
Color	Brown
Odor	Odorless
Odor Threshold	Not determined
pH	2-3
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
Percent Weight (w/w)	6-8%
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

<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

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