

Graphene Oxide, Powder

Item #: 901404

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

Hazards Identification

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

Composition / Information on Ingredients

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

Graphene Oxide, Powder

Item #: 901404

First Aid Measures

First Aid:	<p>In case of eye contact Flush with plenty of water for 15 minutes as a precaution.</p> <p>In case of skin contact Wash thoroughly with soap and plenty water.</p> <p>If inhaled If inhaled, move person into fresh air. If breathing is difficult, admin oxygen. If not breathing, give artificial respiration. Consult a physician.</p> <p>If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water</p>
-------------------	--

Firefighting Measures

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

Accidental Release Measure

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

Handling and Storage

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

Graphene Oxide, Powder

Item #: 901404

Exposure Controls/ Personal Protection

<p>Control parameters</p>	<p>Components with workplace control parameters None</p>
<p>Exposure Control</p>	<p>Appropriate engineering controls 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>
<p>Personal Protective equipment</p>	<p>Eye/face protection Use safety glasses/ goggles</p> <p>Skin protection Handle with gloves and avoid all skin contact. Dispose contaminated gloves after each use. Wash and dry hands</p> <p>Body Protection Wear protective work clothes</p> <p>Respiratory protection Use suitable respirator when high concentrations are present</p>

Graphene Oxide, Powder

Item #: 901404

Physical and Chemical Properties

Appearance	Form: Powder
Color	Brown
Odor	Odorless
Odor Threshold	Not determined
pH	Not determined
Melting point/ freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash Point	200°C
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	Not determined
Percent Weight (w/w)	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Tapped density (g/cm ³)	0.9927
Water solubility	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	Thermally unstable. 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

Graphene Oxide, Powder

Item #: 901404

Toxicological information

<p>Information on toxicological effects:</p>	<p>Acute toxicity Not determined Inhalation: Not determined Dermal: Not determined</p> <p>Skin corrosion/ irritation Irritant to skin and mucous membranes.</p> <p>Serious eye damage/ eye irritation Irritating effect.</p> <p>Respiratory or skin sensitization Not determined</p> <p>Germ cell mutagenicity Not determined</p> <p>Sensitization No sensitizing effects known</p> <p>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.</p> <p>Carcinogenicity IARC: None at the reporting limit. NTP: None at the reporting limit. OSHA: None at the reporting limit.</p> <p>Reproductive toxicity Not determined</p> <p>Specific target organ toxicity- single exposure Not determined</p> <p>Specific target organ toxicity- repeated exposure Not determined</p> <p>Aspiration hazard Not determined</p>
---	--

Graphene Oxide, Powder

Item #: 901404

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
IATA	Not dangerous goods

Regulatory Information

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

Graphene Oxide, Powder

Item #: 901404

Other Information

HMIS Rating	Health hazard: 0 Chronic health hazard: Flammability: 0 Physical Hazard: 0
NFPA Rating	Health Hazard: 0 Fire Hazard: 0 Reactivity Hazard: 0