

# Wholesale-Graphene.com

# **Safety Data Sheet**

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UK +44 (0)870 8200418 (CHEMTREC) **Emergency Contact Number:** 

USA: 800-424-9300 (CHEMTREC)

Outside USA: 001-703-527-3887 (CHEMTREC)

Section 1 **Identification of Substance** 

**Product Name** Graphene Oxide **Cat No** WG-GO-01 1034343-98-0 CAS-No Synonyms mineral Carbon

**Recommended Use** Additive, laboratory chemicals, manufacturing substances

Uses advised against Not for food, drug, pesticide or biocidal product use

#### **SECTION 2 Hazards Identification**

Classification & Label Elements The substance is classified and labelled according to the Globally Harmonized

System (GHS) Regulation (EC) No 1272/2008. Not a hazardous substance or

mixture according to Regulation (EC) No.67/548/EEC

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Signal Word

Danger Signal Word (GHS-US, GHS-CA) Warning

Serious Eve Damage/Eve Irritation

Specific target organ toxicity (single exposure)

Storage

Category 2 Category 3

**Target Organs** Respiratory system.







**Danger Eye Contact** May cause eye irritation **Skin Contact** No known hazards, but may be mildly irritating

Inhalation May cause irritation to respiratory tract Ingestion No known hazards, but may irritate gastrointestinal tract

Mucus membranes and respiratory tract.

**Health Effects** 

Store in a well ventilated place. Keep container tightly closed Store locked up

Additional Information Acute and chronic high concentration of dusts may be irritating to eyes, skin

Information pertaining to particular dangers for man and environment

R36/37 Irritating to eyes and respiratory system.

Hazard statements (GHS-US, GHS-CA) May form combustible dust concentrations in air

Other Hazards High slip hazard due to leaking or spilling product. Graphite dust can cause an

electrical shortage.

#### **SECTION 3**

# Composition/Information on Ingredients

Multi-Layer Graphene Oxide Powder, Graphite Oxide Powder, GO Powder **Synonyms** 

**IUPAC** name Carbon EC No 801-282-5 1034343-98-0 **CAS No** 99%

Weight

# **SECTION 4**

## First Aid Measures

Description of first aid measures If inhaled or if breathed in, move person into fresh air.

If not breathing, give artificial respiration.

In case of skin contact, clean/wash off with soap and plenty of water.

In case of eye contact, flush eyes with water as a precaution.

If swallowed never give anything by mouth to an unconscious person. Rinse mouth with

**Notes to Physician** 

Treat symptomatically

Most important symptoms and effects

both acute and delayed

The most important known symptoms and effects are described in the labelling

(see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment

No data available

#### **SECTION 5**

# **Fire Fighting Measures**

Extinguishing Suitable extinguishing media use water spray, alcohol-resistant foam, dry chemical or

Carbon dioxide.

Special hazards arising from the

substance or mixture

Carbon oxides

No data available **Further information Extinguishing Media** No information available **Flash Point** No information available No information available Method

**Auto-ignition Temperature Explosion** 

**Limits Upper** Lower

No data available No data available

**Sensitivity to Mechanical Impact** Sensitivity to Static Discharge

No information available No information available

Specific Hazards Arising from the

Chemical

Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products** 

None known

**Protective Equipment and Precautions** 

For Fire Fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/

NIOSH (approved or equivalent) and full protective gear. NFPA 6.

#### **SECTION 6**

# **Accidental Release Measures**

Personal precautions, protective equipment and emergency procedures Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see

section 8.

**Environmental precautions** No special environmental precautions required.

Methods and materials for containment

and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other section For disposal see section 13.

# SECTION 7 Handling and storage

Precautions for safe handling Provide appropriate exhaust ventilation at places where dust is formed. For precautions

see section 2

Conditions for safe storage, including

any incompatibilities

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

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

# SECTION 8 Exposure Controls/Personal Protection

Control Parameters It is recommended that exposure levels be kept as low as possible, following good in

dustrial hygiene practices, in order to minimize any potential lung effects. Exposure to

skin should also be minimized.

**Exposure Guidelines**This product does not contain any hazardous materials with occupational exposure

limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

Ventilation A local or general exhaust system is recommended.

**Personal Protective** 

**Boiling Point** 

**Equipment Eye/Face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

**Skin and Body Protection**Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory

Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are

experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. General

protective and hygienic measures The usual precautionary measures for handling chemicals should always be followed. Always keep away from foods, beverages and any 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.

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European

Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator ifexposure limits are exceeded or if irritation or other symptoms are

experienced.

Not available

# SECTION 9 Physical & Chemical Properties

AppearancePowder form.Auto-ignition TemperatureNot available

Colour Black

**Decomposition Temperature** 622°C Partition coefficient

Evaporation RateNot availableExplosive PropertiesNot availableFlammability Limit % (Higher)Not availableFlammability Limit % (Lower)Not availableFlash PointNot availableFreezing PointNot available

Ignition Temperature: Dispersed dust cloud - >600°c, deposited dust - >365°c

**Melting Point** Approximately 3600°c.

 Odor
 Odourless

 Oxidising Properties
 Not available

 Partition Coefficient
 Not available

 pH
 Not available

Relative Density 0.200 g/cm3 (at 20°C)

SolubilityNegligibleSolubility in WaterDispersionVapor DensityNot availableViscosityNot available

#### SECTION 10

#### Stability & Reactivity

Reactivity Oxidising agents

Chemical stability Stable under normal temperatures and pressures

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use

Conditions to avoid Incompatible materials, dust generation. Avoid heat, sparks, flames and other

sources of ignition

Incompatible materials Strong oxidizing substances

Hazardous decomposition products Carbon monoxide (CO) and carbon dioxide (CO2)

#### **SECTION 11**

# **Toxicological information**

#### **Acute Toxicity**

Product Information No acute toxicity information is available for this product

Component InformationNo information availableToxicologically Synergistic ProductsNo information available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

IrritationNo information availableSensitizationNo information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a

carcinogen.

Component	CAS-No	ACGIH	IARC	Mexico	NTP	OSHA
Graphene	1034343-98-0	Not listed				

Mutagenic EffectsNo information availableReproductive EffectsNo information availableDevelopmental EffectsNo information availableTeratogenicityNo information available

STOT (Single Exposure) None known STOT (Repeated Exposure) None known

Aspiration hazard No information available Symptoms / effects, both acute & No information available

delayed

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated

## **SECTION 12**

# **Ecological information**

**Ecotoxicity** Do not empty into drains or sewer water systems . Follow all hazardous waste

guidelines when disposing hazardous materials.

Persistence and Degradability Bioaccumulation/ Accumulation

Mobility

No information available
No information available
No information available

# SECTION 13

# **Disposal Considerations**

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is

classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate

classification.

#### **SECTION 14**

# **Transport Information**

**UN Number** 

**UN Proper Shipping Name** 

DOT (US)

ADR/RID:

Not dangerous goods

IMDG:

Not dangerous goods

Not dangerous goods

Not dangerous goods

Not dangerous goods

ADR/RID , IMDG , IATA , DOT (US)

Not dangerous goods

Transport Hazard Class(es) ADR/RID , IMDG , IATA

Packaging Group Not classified

Environmental Hazards No Marine Pollutant No

Special Precautions For User No data available

# SECTION 15 Regulatory information

SARA 302 Components SARA 302 No chemicals in this material are subject to the reporting requirements of SARA

Title III, Section 302

SARA 313 Components SARA 313 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

Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

The EU chemicals legislation applies to all industry sectors dealing with chemicals and along the entire supply chain. It makes companies responsible for the safety of chemicals they place on the market. Reach is a regulation of the European Union, adopted to improve the protection of human health and the environment from the risks that can be posed by chemicals, while enhancing the competitiveness of the EU chemicals industry.

#### This material is listed on the US Toxic Substances Control Act (TSCA) Inventory and the following chemical inventories:

Canadian Domestic Substances List (DSL),

European Inventory of Existing Commercial Chemical Substances (EINECS),

Korean Existing Chemicals List (ECL),

Australian Inventory of Chemical Substances (AICS),

the Philippines Inventory of Chemicals and Chemical Substances (PICCS)

and the Swiss Giftliste 1 Inventory of Notified New Substances.

Additional Information This substance is not regulated in Japan and excluded from the Japanese Chemical

Substances Control Law according to the Japanese Ministry of Economy, Trade and

Industry, formerly the Ministry of International Trade and Industry (MITI).

Hazard Symbols Eye Irritant

Risk Phrases Irritating to eyes and respiratory system.

Safety Phrases In case of contact with eyes, rinse immediately with plenty of water and seek medical

advice

National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Information about limitation of use: For use only by technically qualified individuals.

# SECTION 16 Other Information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement 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.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) Health Flammability Reactivity BASIS 1 0 0 Synthetic graphite powder.

#### Disclaimer

This information is based on our present state of knowledge and our research into available scientific literature as well as information obtained from other sources. Use of this information shall not establish a legally binding relationship. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or any process. It does not represent any guarantee of the properties of the product. Marble Capital Partners Ltd takes no responsibility regarding the accuracy of the scientific literature or any third-party information and, therefore, cannot guarantee any specific material properties. Marble Capital Partners Ltd shall not be held liable for any damage resulting from handling or from contact with the product. It is the user's responsibility to satisfy him/her self as to the suitability of such information for his own particular use.

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**END OF SDS**