



Safety Data Sheet

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Company

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Section 1

Identification of Substance

Product Name

Graphene Nanoplatelets Powder

Cat No

WG-NP-01

CAS-No

1034343-98-0

Synonyms mineral

Carbon. Crystallized 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.

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

Not a hazardous substance or mixture according to Regulation (EC) No.67/548/EEC

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

Health Effects

Mucus membranes and respiratory tract.



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.

Other Hazards

High slip hazard due to leaking or spilling product. Graphite dust can cause electrical shortages.

SECTION 3

Composition/Information on Ingredients

3.1 Substances

Synonyms

Graphene powder, Graphite powder, GNP powder

IUPAC name

Carbon

Molecular weight

12.01 g/mol

EC No

801-282-5

CAS No

1034343-98-0₁

SECTION 4

First aid measures

4.1 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 water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment

No data available

SECTION 5

Fire fighting measures

5.1 Extinguishing

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

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

6.4 Reference to other section

For disposal see section 13.



SECTION 7 Handling and storage

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8 Control parameters

Additional information about design of technical systems

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with limit values that require monitoring at the workplace:

Graphite mg/m ³	
ACGIH TLV 2	Belgium TWA 2.5
Finland TWA 5	France VME 2
Germany MAK 6	Ireland TWA 5
Korea TLV 2	Netherlands MAC-TGG 2
Poland TWA 2	Sweden NGV 5 (dust)
Switzerland MAK-W 2.5	United Kingdom 5-LTEL
USA PEL 15	

Additional information:

Personal protective equipment

8.1 Eye Protection: ANSI 787 rated safety glasses with side-shields

8.2 Respiratory Protection: NIOSH N-100 or P-100 rated particulate respirator

8.3 Skin Protection: Nitrile gloves or equivalent and protective clothing to prevent skin contact, such as cotton fibre lab coat or uniform or Tyvek coveralls

8.4 Ventilation: A local or general exhaust system is recommended.

General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and 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.