

Section 1.- Identification of the substance/mixture and of the company

1.1 Product identifiers

Product name : Graphene oxide
Product Number : XXXXX
Brand : VIS1234
REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : VISTEC, X.X.
Ed. Wangchan Valley 555 Moo 1 Payupnai,
Wangchan, Rayong 21210 Thailand

E-mail : XXX@XXX.com
Telephone : +XX XXXX+XXXX
Fax : +XX XXXX+XXXX

1.4 Emergency telephone number

Emergency Phone # : +XX XXX+XXXX

Section 2.- Hazards identification

Classification of the mixture:

According to Regulation CLP (EC) No1272/2008

Eye irritation (Category 2)

Specific target organ toxicity- single exposure (Category 3), respiratory system

Label elements:



Hazard statements

H319 – Causes serious eye irritation.
H335 – May cause respiratory irritation

Precautionary statements

P305 + P338 + P351– If in eyes: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P261 – Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Supplemental Hazard Statements: None

Section 3.- Composition/Information on ingredients

Substances

Substance name	: Graphene Oxide
Synonyms	: GOX, GPHOX
CAS	: Graphite 7782-42-5
Molecular weight	: 4.239,48 g/mol
No components need to be disclosed according to the applicable regulations.	

Section 4.- First aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

After skin contact: Wash skin with soap and copious amounts of water.

After ingestion: Make victim drink plenty of water. Never give anything by mouth to an unconscious person, rinse mouth with water.

After eye contact: Rinse out with plenty of water with the eyelid held wide open for at least 15 minutes.

After inhalation: Move the person into fresh air. If it is necessary, give artificial respiration with oxygen. The most important symptoms and effects are described in the section 2 (label elements).

Section 5.- Fire-fighting measures

Suitable extinguishing media: use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance: carbon oxides

Special protective equipment for fire fighting: Wear self contained breathing apparatus for fire fighting if necessary.

Further information: Use water spray to cool unopened containers.

Section 6.- Accidental release measures

Person-related precautionary measures: Use personal protective equipment. Avoid breathing vapours. Ensure adequate ventilation.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up: Contain with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

Procedures for cleaning/absorption: Keep in suitable, closed containers for disposal.

Section 7.- Handling and storage

Handling: Avoid eye and skin contact. Avoid formation of dust and aerosols. Take measures to prevent the build-up of electrostatic charge.

Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place protected from sunlight.

Section 8.- Exposure controls/personal protection

Exposure controls

General industrial hygiene practice

Hand protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product.

Eye protection Safety glasses with side-shields conforming to NIOSH (US) or EN166 (EU)

Skin and body protection Choose body protection according to the amount and concentration of the dangerous substance at the work place. Handle with gloves. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374 derived from it.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9.- Physical and chemical properties

General information: Form: solid
Colour: brown
Odour: odourless

Important health, safety and environmental information:

- pH value: no data available
- Relative density: 1.8 g/cm³
- Explosion limits: no data available

Section 10.- Stability and reactivity

Reactivity and chemical stability: No data available

Possibility of hazardous reactions: No data available.

Incompatible materials: Strong oxidizing agents.

Conditions to avoid: Heat, flames and sparks. Direct sunlight should be avoid.

Hazardous decomposition products: Other decomposition products – no data available.

Further information: Stable under recommended storage conditions.

Section 11.- Toxicological information

To the best of our knowledge the toxicological effects of this substance has not been thoroughly researched

Carcinogenicity: no component of this product present at levels greater than or equal to 0.1 % is identified as probable, possible or confirmed human carcinogen by IARC.

Specific target organ toxicity – single exposure: inhalation – may cause respiratory irritation.

Serious eye damage/ eye irritation: Causes serious eye irritation

Section 12.- Ecological information:

To the best of our knowledge the ecological effects of this substance has not been thoroughly researched.

Persistence and degradability: This substance contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1 % or higher.

Section 13.- Disposal considerations

Product: Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose this material.

Contaminated packaging: Dispose of as unused product.

Section 14.- Transport information

Not a hazardous material for transportation

Section 15.- Regulatory information

This safety datasheet has been revised to comply with the requirements establish in (EC) 453/2010.

Section 16.- Other information

Date of creation: 27/05/2020

Author: XXXXX

Revised by: XXX(R&D manager, VISTEC, X.X.)

The contents and format of this MSDS are in accordance with EC 453/2010.

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