



SAFETY DATA SHEET

Nano Graphene Oxide Platelets Water Suspension

SECTION 1: Identification of the mixture and of the company / undertaking

- 1.1. Product identifier: Nano Graphene Oxide Platelets Water Suspension
- 1.2. Relevant identified uses of the substance or mixture and uses advised against: Composite materials, batteries, biomedical equipment, solar cells, catalysts, multifunctional materials.
- 1.3. Details of the supplier of the safety data sheet: NANOPOZ Łukasz Majchrzycki, ul. R. Drewsa 4/32, 61-606 Poznań, Poland;
- 1.4. Manufacturer: NANOPOZ Łukasz Majchrzycki, ul. R. Drewsa 4/32, 61-606 Poznań, Poland
- 1.5. Emergency telephone number: +48 604 29 84 29 (Office hours 8:00 – 16:00)

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture: The mixture is not classified as dangerous.
Classification according to Regulation 1272/2008 (CLP):
Not classified as hazardous
Classification under CHIP (Directive 67/548/EEC and 1999/45/EC):
Not classified as hazardous
- 2.2. Labelling according to Regulation 1272/2008 (CLP):
None required
- 2.3. Other hazards: No additional information available. No presence of PBT and vPvB ingredients.

SECTION 3: Composition and information on ingredients

- 3.1. Mixtures
Description: Graphene oxide platelets water suspension conc. 4 mg/ml
Dangerous Substances:

Name	Product Identifier	REACH registration number	Classification according to Regulation 1272/2008	%
Graphene Oxide	CAS: 7782-42-5 WE: 231-955-3	01-2119486977-12-0000	None	<1

Full text of phrases: see section 16.

SECTION 4: First aid measures

- 4.1. Description of first aid measures
After inhalation:
Move to fresh air. Seek medical advice if cough, shortness of breath or other respiratory problems occur.
After skin contact:
Wash exposed area with soap and water. Obtain medical attention if irritation persists.
After eye contact:
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention if irritation persists.
After swallowing:
Do not induce vomiting. If victim is conscious, rinse mouth with a small amount of water. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Consult a doctor.
- 4.2. Most important symptoms and effects, both acute and delayed
Immediate effects can be expected after short-term exposure.
- 4.3. Indication of any immediate medical attention and special treatment needed
Take victim to a doctor if irritation persists.

SECTION 5: Firefighting measures

- 5.1. Suitable extinguishing media:
Water, water fog, foam, carbon dioxide, dry chemical. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
- 5.2. Special hazards arising from the substance or mixture:
The product is not flammable. Product is not explosive. No dangerous reactions known.



5.3. Advice for firefighters:

Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin. Wear suitable gloves. Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Refer to Sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool, well ventilated area. Keep container tightly closed. Keep away from food, drink and animal feeding stuffs. Store in original container.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters

No additional information available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Personal protective equipment: Eye and face protection: Avoid contact with eyes. Safety glasses with side-shields

Skin and body protection: Avoid contact with skin. Impermeable protective clothing.

Hand protection: Wear suitable gloves.

Respiratory protection: Respiratory protection not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: dark amber liquid

Odour: none

pH: undetermined

Melting point/Melting range: undetermined

Boiling point/Boiling range: undetermined

Flash point: undetermined

Self-igniting: product is not selfigniting

Danger of explosion: product does not present an explosion hazard

Density: 1,008 g/cm³

Solubility in / Miscibility with water: soluble

Melting point/Melting range: undetermined

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known. Stable under recommended transport or storage conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Not required for normal conditions of use. No hazardous decomposition products if stored and handled as prescribed.

10.5. Incompatible materials

Strong oxidising agents. Strong acids.



10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on toxicological effects: None.

Adverse human health effects and symptoms:

Inhalation: Exposure may cause coughing or wheezing.

Skin contact: May cause skin irritation and/or dermatitis. May cause sensitization by skin contact.

Eye contact: Contact with eyes may cause irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat.

SECTION 12: Ecological information

12.1. Toxicity

No known adverse effects.

12.2. Persistence and degradability

No data.

12.3. Bioaccumulative potential

No data.

12.4. Mobility in soil

Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

No presence of PBT and vPvB ingredients.

12.6. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose of waste according to applicable local, state and federal regulations.

Disposal of packaging: May be reused following decontamination.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport information

Transport class: This product does not require a classification for transport.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Classification and labeling have been determined according to:

- EU Directives 67/548/EEC, 1999/45/EC (including amendments) and Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II,
- Regulation (EC) No. 1272/2008 [CLP],
- Regulation (EC) No.648/2004 on detergents.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16: Other information

Based on the NANOPOZ Safety DataSheet – date of issue 29.05.15

Full text of phrases:

Version: 1.0

Attention:

1. 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 in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

2. This SDS was made by: Firma Konsultingowa SpecChem, ul. Śląska 12/13, 70-432, tel. +48 606 874 162, Poland, e-mail: biuro@specchem.eu, <http://www.specchem.eu> represented by: Krzysztof Kapczyński.

3. This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

