ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier
Product Name
Thermally Reduced Graphene Oxide Powder
Synonyms
rGO
Chemical Name
Reduced graphene oxide
Chemical Formula
CxHyOz
Product code
M951
CAS No.
Not available.
EC No.
Not available.
REACH Registration No.
Not applicable.

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified Use(s)
PC21 Laboratory chemicals

1.3 Details of the supplier of the safety data sheet
Company Identification
Ossila Limited
Address of Supplier
Solpro Business Park
Windsor Street
Sheffield
Postal code
S4 7WB, UK
Telephone:
+441142999180
E-mail
info@ossila.com
Office hours
08:00 - 17:00

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements
The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards
None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
No components need to be disclosed according to the applicable regulations.

3.2 Mixtures
Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures
Inhalation
Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact
Rinse skin with water. If skin irritation occurs, get medical advice/attention.

Eye Contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion
Rinse out mouth with water. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed
SECTION 11: Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable Extinguishing media
As appropriate for surrounding fire.

Unsuitable extinguishing media
As appropriate for surrounding fire.

5.2 Special hazards arising from the substance or mixture
May decompose in a fire, giving off toxic and irritant vapours.

5.3 Advice for firefighters
Fire fighters should wear complete protective clothing including self-contained breathing apparatus.
SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear protective clothing as per section 8.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Sweep up spilled substance but avoid making dust. Use vacuum equipment for collecting spilt materials, where practicable. Dispose of contents in accordance with local, state or national legislation.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid breathing dust/aerosols. Use only in a well-ventilated area. Wear protective clothing as per section 8.

7.2 Conditions for safe storage, including any incompatibilities


7.3 Specific end use(s)

Not known. See Section: 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

No Occupational Exposure Limit assigned.

8.2 Exposure controls

8.2.1. Appropriate engineering controls

Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2 Personal protection equipment

Eye Protection: Wear eye protection with side protection (EN166).

Skin protection: Wear protective clothing and gloves: Impervious gloves (EN 374).

Respiratory protection: Normally no personal respiratory protection is necessary.

Thermal hazards: None known.

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Solid powder/flakes

Colour: Black

Odour: Not known.

Odour threshold: Not known.

pH: Not known.

Melting point/freezing point: Not known.

Initial boiling point and boiling range: Not known.

Flash Point: Not known.

Evaporation rate: Not known.
### Flammability (solid, gas)
Not known.

### Upper/lower flammability or explosive limits
Not known.

### Vapour pressure
Not known.

### Vapour density
Not known.

### Density (g/ml)
Not known.

### Relative density
Not known.

### Solubility(ies)
Solubility (Water): Not known.
Solubility (Other): Not known.

### Partition coefficient: n-octanol/water
Not known.

### Auto-ignition temperature
Not known.

### Decomposition Temperature (°C)
Not known.

### Viscosity
Not known.

### Explosive properties
Not known.

### Oxidising properties
Not known.

### 9.2 Other information
None.

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### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity
None anticipated.

#### 10.2 Chemical Stability
Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions
Not known.

#### 10.4 Conditions to avoid
Not known.

#### 10.5 Incompatible materials
Not known.

#### 10.6 Hazardous decomposition products
No hazardous decomposition products known.

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### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

- **Acute toxicity - Ingestion**: Not classified.
- **Acute toxicity - Skin Contact**: Not classified.
- **Acute toxicity - Inhalation**: Not classified.
- **Skin corrosion/irritation**: Not classified.
- **Serious eye damage/irritation**: Not classified.
- **Skin sensitization data**: Not classified.
- **Respiratory sensitization data**: Not classified.
- **Germ cell mutagenicity**: Not classified.
- **Carcinogenicity**: Not classified.
- **Reproductive toxicity**: Not classified.
- **Lactation**: Not classified.
- **STOT - single exposure**: Not classified.
- **STOT - repeated exposure**: Not classified.
- **Aspiration hazard**: Not classified.

#### 11.2 Other information
Not known.

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### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

- **Toxicity - Aquatic invertebrates**: Not known.
- **Toxicity - Fish**: Not known.
- **Toxicity - Algae**: Not known.
- **Toxicity - Sediment Compartment**: Not classified.
- **Toxicity - Terrestrial Compartment**: Not classified.

#### 12.2 Persistence and Degradation
Not known.

#### 12.3 Bioaccumulative potential
Not known.

#### 12.4 Mobility in soil
Not known.

#### 12.5 Results of PBT and vPvB assessment
Not known.
12.6 Other adverse effects
Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator.

13.2 Additional Information
Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

IATA/IMO/RID/ADR
Not classified as hazardous for transport.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
European Regulations - Authorisations and/or Restrictions On Use
Candidate List of Substances of Very High Concern for Authorisation
Not listed
REACH: ANNEX XIV list of substances subject to authorisation
Not listed
REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
Not listed
Community Rolling Action Plan (CoRAP)
Not listed
Not listed
Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer
Not listed
Not listed
National regulations
Other
Not known.

15.2 Chemical Safety Assessment
A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Acronyms
ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS : Chemical Abstracts Service
CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL : Derived No Effect Level
EC : European Community
EINECS : European Inventory of Existing Commercial Chemical Substances
IATA : International Air Transport Association
IBC : Intermediate Bulk Container
ICAO : International Civil Aviation Organization
IMDG : International Maritime Dangerous Goods
LTEL : Long term exposure limit
PBT : Persistent, Bioaccumulative and Toxic
PNEC : Predicted No Effect Concentration
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL : Short term exposure limit
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