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SAFETY	DATA	<b>SHEET</b>			
according to Regulation (EC) No. 1907/2006					

Version 6.3 Revision Date 20.06.2022 Print Date 20.06.2023 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1	Product identifiers		
	Product name	:	Nanographene oxide
			Graphene oxide nanocolloids
	Product Number	:	795534
	Brand	:	Aldrich
	REACH No.	:	

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

Identified uses : Laboratory chemicals, Manufacture of substances

(numer alarmowy)

## **1.3** Details of the supplier of the safety data sheet

Company	:	Merck Life Science Sp.z.o.o. Szelągowska 30 PL-61-626 POZNAN
Telephone Fax E-mail address	:	+48 61 8290-100 +48 61 8290-120 TechnicalService@merckgroup.com
Emergency telephone		
Emergency Phone #	:	+(48)-223988029 (CHEMTREC) 112

# **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

1.4

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

## 2.3 Other hazards

This substance/mixture 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.

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# SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Synonyms

: nano-GO nano GO NGO Graphene Oxide Nanocolloids

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

# **SECTION 4: First aid measures**

## **4.1** Description of first-aid measures

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

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 needed** No data available

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

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

- **5.2** Special hazards arising from the substance or mixture Nature of decomposition products not known.
- **5.3** Advice for firefighters 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 breathing vapors, mist or gas. For personal protection see section 8.

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

- **6.3** Methods and materials for containment and cleaning up Keep in suitable, closed containers for disposal.
- **6.4** Reference to other sections For disposal see section 13.

## **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Advice on safe handling Mix thoroughly before use.

#### **Hygiene measures**

General industrial hygiene practice. For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

## Storage conditions

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

Do not freeze.

#### Storage class

Storage class (TRGS 510): 12: Non Combustible Liquids

## 7.3 Specific end use(s)

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

## SECTION 8: Exposure controls/personal protection

# 8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

# Personal protective equipment

## Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

## **Body Protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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# **Respiratory protection**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# **Control of environmental exposure**

No special environmental precautions required.

#### SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties

a)	Physical state	liquid
b)	Color	black
c)	Odor	No data available
d)	Melting point/freezing point	0 °C
e)	Initial boiling point and boiling range	No data available
f)	Flammability (solid, gas)	No data available
g)	Upper/lower flammability or explosive limits	No data available
h)	Flash point	No data available
i)	Autoignition temperature	No data available
j)	Decomposition temperature	No data available
k)	рН	No data available
I)	Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
m)	Water solubility	No data available
n)	Partition coefficient: n-octanol/water	No data available
o)	Vapor pressure	No data available
p)	Density	0,9956 g/cm3
	Relative density	No data available
q)	Relative vapor density	No data available
r)	Particle characteristics	No data available

s) Explosive properties Not classified as explosive.

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- t) Oxidizing properties none
- 9.2 Other safety information No data available

# **SECTION 10: Stability and reactivity**

# **10.1 Reactivity**

No data available

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available
- **10.5 Incompatible materials** Strong oxidizing agents
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Mixture

Acute toxicity Oral: No data available Inhalation: No data available Dermal: No data available

#### Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

**Respiratory or skin sensitization** No data available

Germ cell mutagenicity No data available

**Carcinogenicity** No data available

Reproductive toxicity No data available

**Specific target organ toxicity - single exposure** No data available

**Specific target organ toxicity - repeated exposure** No data available

Aspiration hazard No data available

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# **11.2 Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **SECTION 12: Ecological information**

## **12.1 Toxicity**

**Mixture** No data available

- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available

## 12.5 Results of PBT and vPvB assessment

This substance/mixture 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.

- **12.6 Endocrine disrupting properties** No data available
- 12.7 Other adverse effects

No data available

Components

# **SECTION 13: Disposal considerations**

## **13.1** Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### **Contaminated packaging**

Dispose of as unused product.

SECTION 14: Transport information					
<b>14.1 UN number</b> ADR/RID: -	IMDG: -	IATA: -			
<b>14.2 UN proper shipping</b> ADR/RID: Not danger IMDG: Not danger IATA: Not danger	ous goods ous goods				
<b>14.3 Transport hazard cl</b> ADR/RID: -	ass(es) IMDG: -	IATA: -			
14.4 Packaging group ADR/RID: -	IMDG: -	IATA: -			
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#### **14.5 Environmental hazards** ADR/RID: no

#### IMDG Marine pollutant: no IATA: no

#### 14.6 Special precautions for user

#### **Further information**

Not classified as dangerous in the meaning of transport regulations.

#### **SECTION 15: Regulatory information**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

## **15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

# **SECTION 16: Other information**

#### **Further information**

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