

# MATERIAL SAFETY DATA SHEET

Graphene  
According to directive 2020/9045  
/RD Date of issue  
10/07/2020  
Version 1.1

## 1. Identification of the substance/preparation and of the company

**Identification of the Product** : NANOZONE  
**Chemical family** : NANO SCROLLS GRAPHENE POLYMER  
**Product name** : NANOZONE  
**Use of the substance/preparation** : INDUSTRIAL use only  
**Manufacture/supplier identification:** KNV'S INCORPORATION

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**Emergency phone** :

HSN CODE : 38099190

## 2. Hazards identification

It has non-toxic properties which has been thoroughly investigated. The present substance has been classified according to identification of polymer. **Use of the Substance/Mixture:** Retentive Graphene polymer disinfectant for industrial use on non-living surfaces only.

## 3. Composition/Information or ingredients

Component	CAS No.	Concentration (%)
SUPERNANO GRAPHENE (Nano scrolls)	7782-42-5	3%
PROERITORY POLYMER	N.A.	38-42
Glycol base	107-21-1	58-62

#### 4. **First aid measures**

**After inhalation** : Move the person into fresh air. If it is necessary, give artificial respiration with oxygen. Summon physician if necessary.

**After skin contact** : Wash skin with soap and copious amount of water. Consult a physician.

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

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

Summon eye specialist.

**In case of persisting adverse effect** : Consult a physician

**General** : Show this safety data sheet to the doctor in attendance.

#### 5. **First –fighting measures**

**Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon Dioxide

**Special hazards arising from the substance** : Metal oxides, carbon dioxide and carbon monoxide. May form toxic fumes.

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

#### 6. **Accidental release measures**

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

**Environment precautions** : Do not discharge into the drains/surface waters/ground waters.

**Procedures for cleaning/absorption** : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

#### 7. **Handling and storage**

**Handling** : Avoid eye and skin contact. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage** : Store in cool place. Keep container tightly closed in a dry and well-ventilated places.

#### 8. **Exposure controls/personal protection**

##### **Exposure controls**

Respiratory protection : Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95(US) or type P1(EN143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand Protection : The selected protective gloves have to satisfy the specification of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection : Safety glasses with side-shields conforming to EN166.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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

## 9. Physical and Chemical properties

<b>Physical state</b>	Semi Liquid
<b>Colour</b>	Pale Yellow
<b>Odour</b>	Sweet
<b>Odour Threshold</b>	No data available
<b>pH</b>	Solution in Water Neutral
<b>Melting point</b>	12 - 15 °C
<b>Freezing point</b>	10 to 12°C
<b>Boiling point</b>	>200°C
<b>Flash point</b>	> 250 °C
<b>Evaporation rate</b>	No data available
<b>Partition coefficient</b>	No data available
<b>Auto ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	400-1000 CPS @ 30°C
<b>Kinematic viscosity</b>	No data available
<b>Viscosity, dynamic</b>	-
<b>Explosive properties</b>	Not Explosive
<b>Oxidizing properties</b>	Not Oxidizing
<b>Molecular weight</b>	N/A
<b>Flammability</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Density</b>	1.05-1.07 grams/ml
<b>Relative vapor density</b>	-
<b>Water solubility</b>	Soluble in Water
<b>Lower explosion limit</b>	No test data available
<b>Upper explosion limit</b>	No test data available

## 10. Stability and reactivity

**Condition to be avoid :** Heating should be avoid

**Substances to be avoided :** Strong oxidizing agents and/or reducing agents

**Hazardous decomposition products :** non hazardous

**Further information :** Stable under recommended storage conditions.

## 11. Toxicological information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals:

LD50 (oral,rat): >2000mg/kg / LC50 (inhalation, rat): N.A.

Chronic Effects on Humans: No

Special Remarks on Toxicity to Animals: Non toxic

Special Remarks on Chronic Effects on Humans: Non-toxic

Special Remarks on other Toxic Effects on Humans: Non toxic

**Acute toxicity :**

- **Carcinogenicity :** non-carcinogenic Silane / Ethylene Glycol.

Graphene-

Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Further toxicology Carcinogenicity :** non-carcinogenic

- **After skin contact:** No irritation and no corrosion
- **After eye contact:** very slight to no Irritations
- **After ingestion :** No problem
- **After inhalation :** no respiratory problem

12. **Ecological information :**

**Mobility :** no issue

**Bioaccumulative potential :** No issue

**Persistence and degradability :** No

**Other adverse effects:** No

13. **Disposal considerations :**

**Product :** Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber.

**Packaging :** Dispose of as unused product

14. **Transport information :**

**Road transport :** Not dangerous goods

**Sea transport :** Not dangerous goods

**Air transport :** Not dangerous goods

15. **Regulatory information :**

This safety datasheet complies with the requirements of Regulation (EC) 1907/2006 and/or 67/548/EEC and/or 1999/45/EC.

**R-phrases :**

R36/37 Irritating to eyes and respiratory system

**S-phrases :**

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 Wear suitable protective clothing.

16. **Other information :**

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