

# Safety Data Sheet

according to Regulation (EC) No 1907/2006



## GRAPHENE WAX

### Section 1: Company Identification

Infinity Chemicals LTD  
Newark House  
Newark Road South  
Glenrothes  
KY7 4NS  
Scotland

### Section 1.1: Company Contact Information

Email: [Order@infinitywax.com](mailto:Order@infinitywax.com)  
Tel: 0800 024 8625  
Out with UK: +441592775645

### Section 2: Hazard Identification

#### Classification of the substance or mixture:

Regulation (EC) No. 1272/2008

#### **Hazard categories:**

Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Irrit. 2  
Aspiration hazard: Asp. Irrit. 2

#### Label elements

Regulation (EC) No. 1272/2008

Hazardous components which must be listed on the label

- *Hydrocarbons C10-C13*
- *SILOXANES & SILICONES 71750-79-3*
- *GRAPHENE Nanoplatelets 7782-42-5*

Signal word: Danger

Pictograms:



#### **Hazard Statements:**

H304 May be fatal if swallowed  
H355 May irritate airways  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

#### **Precautionary Statements:**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P280 Wear protective gloves/protective clothing/eye protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P331 Do NOT induce vomiting.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses.

### Section 3: Composition & information on ingredients

Hydrocarbons C10-C13	>40%
SILOXANES & SILICONES 71750-79-3	>30%
GRAPHENE Nanoplatelets 7782-42-5	<5%

### Section 4: First Aid Measures

**General Information:**

In case of accident or un-wellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Remove contaminated, saturated clothing immediately.

**After Inhalation:**

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

**After Contact With Skin:**

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

**After Contact With Eyes:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

**After Ingestion:**

Call a physician immediately. Rinse mouth. Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs.

**Indication Of Any Immediate Medical Attention Needed:**

Treat symptomatically.

### Section 5: Firefighting Measures

**Suitable Extinguishing Media**

alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO<sub>2</sub>)

**Unsuitable Media:**

Water Spray Jet

**Special Hazards Arising From The Substance Or Mixture:**

Can be released in case of fire: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>), Silicon dioxide (SiO<sub>2</sub>)

**Advice For Fire Fighting Operatives:**

Wear a self-contained breathing apparatus and chemical protective clothing. In case of fire and/or explosion do not breathe fumes.

**Additional Information:**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

## Section 6: Accidental Release Measures

### Personal Precautions, Protective Equipment & Emergency Procedures:

Provide adequate ventilation.  
Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.  
Wear personal protection equipment

### Environmental Precautions:

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### Methods & Materials For Containment/ Cleaning Up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Clean contaminated objects and areas thoroughly observing environmental regulations.

## Section 7: Handling & Storage

### Advice on Safe Handling:

Provide adequate ventilation as well as local exhaust at critical locations.  
Wear suitable protective clothing. (See section 8.)  
Avoid contact with skin, eyes and clothes.  
Store at room temperature only.

### Requirements For Storage:

Keep container tightly closed in a cool, well-ventilated place.  
Ensure adequate ventilation of the storage area.  
Keep/Store only in original container. Keep locked up and out of reach of children.  
Keep away from food, drink and animal feeding stuffs.

### Advice On Storage Compatibility:

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances.

### Further Storage Advice And Considerations:

Keep cool. Protect from sunlight. Keep away from heat. Protect from moisture.  
storage temperature: 5-20 C. Sensitive to frost and excessive heat.  
Product may "sweat" in warm temperatures.

## Section 8: Exposure Controls & Personal Protection

### Exposure Controls:

Wear Eye Protection Goggles  
Wear Gloves With Closed Cuff  
Do not eat or drink in close proximity

### Engineering Controls:

Provide adequate ventilation as well as local exhaust at critical locations.

### Protective And Hygiene Measures:

The usual precautions for handling chemicals should be considered.  
Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work. Change contaminated clothing. Wash contaminated clothing prior to re-use. Use protective skin cream before handling the product.

### Eye & Face Protection:

Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

### Hand Protection:

Wear suitable gloves. DIN EN 374  
Pull-over gloves of rubber.  
Suitable material:  
Butyl rubber. (0.5 mm)  
(penetration time (maximum wearing period):  $\geq 8$  h):  
Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### Skin Protection:

Protective clothing as deemed fit for purpose/ task.

### Respiratory Protection:

Usually no personal respirative protection necessary.  
Respiratory protection necessary at:  
insufficient ventilation.  
Generation/formation of aerosols  
Generation/formation of mist  
Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type AP-2/3

**Environmental Exposure Controls:**

This material and its container must be disposed of in a safe way.

## Section 9: Physical And Chemical Properties

**Information On Basic Physical And Chemical Properties:**

Physical state: SOLID  
Colour: Pale GREY  
Odour: FRAGRANCED  
pH-Value: 4.5-6  
Solubility: OIL/SOLVENT

**Changes in the physical state**

Melting point: 114C  
Initial boiling point and boiling range: N/A  
Flash point: 61C

**Explosive properties:**

Lower explosion limits: not determined  
Upper explosion limits: not determined  
Ignition temperature: not determined  
Decomposition temperature: not determined

**Oxidising Properties:**

None

**Intended Uses:**

Automotive Care – surface protection

## Section 10: Stability & Reactivity

**Reactivity**

May react with ethanol.

**Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.  
Possibility of hazardous reactions  
No information available.

**Conditions to avoid**

Keep away from heat. Protect against direct sunlight.  
Generation/formation of aerosols, Frost.

**Incompatible materials**

Reducing agent. Oxidizing agents. Strong acid. Strong alkali

**Hazardous decomposition products**

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Silicon dioxide (SiO<sub>2</sub>)

## Section 11: Toxicological Information

**Toxicokinetics, metabolism and distribution**

No information available.

**Acute toxicity**

No information available

**Irritation and corrosivity**

Causes skin irritation.  
Causes serious eye irritation.

## Section 12: Ecological Information

Discharge of large quantities may cause severe long lasting effects on the aquatic environment.

## Section 13: Disposal Considerations

**Advice on disposal**

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

## Section 14: Transport Information

### Land transport (ADR/RID)

- 14.1. UN number: Not restricted
- 14.2. UN proper shipping name: Not restricted
- 14.3. Transport hazard class(es): Not restricted
- 14.4. Packing group: Not restricted

### Inland waterways transport (ADN)

- 14.1. UN number: Not restricted
- 14.2. UN proper shipping name: Not restricted
- 14.3. Transport hazard class(es): Not restricted
- 14.4. Packing group: Not restricted

### Marine transport (IMDG)

- 14.1. UN number: Not restricted
- 14.2. UN proper shipping name: Not restricted
- 14.3. Transport hazard class(es): Not restricted
- 14.4. Packing group: Not restricted

### Air transport (ICAO)

- 14.1. UN number: Not restricted
- 14.2. UN proper shipping name: Not restricted
- 14.3. Transport hazard class(es): Not restricted
- 14.4. Packing group: Not restricted
- 14.5. Environmental hazards

### ENVIRONMENTALLY HAZARDOUS:

no

### Special precautions for user

Not restricted

## Section 15: Other Information

### Changes

Rev 1,00; 12.01.2021, Initial release

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the  
CAS Chemical Abstracts Service  
DNEL: Derived No Effect Level  
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect conc  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect level  
NTP: National Toxicology Program  
N/A: not applicable  
OSHA: Concerning the International Transport of Dangerous Goods by Rail )  
PNEC: predicted no effect concentration  
PBT: Persistent bioaccumulative toxic  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )  
SARA: Superfund Amendments and Reauthorization Act  
SVHC: substance of very high concern  
TRGS Technische Regeln für Gefahrstoffe  
TSCA: Toxic Substances Control Act  
VOC: Volatile Organic Compounds  
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe  
WGK: Wassergefährdungsklasse  
H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
EUH066 Repeated exposure may cause skin dryness or cracking.

## Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.