

Safety Data Sheet

according to Regulation (EC) No 1907/2006



QDX GRAPHENE

Section 1: Company Identification

Infinity Chemical Manufacturing & Trading LTD
Infinity House
Newark Court, Newark Road South
Glenrothes
KY7 4NL
Scotland

Section 1.1: Company Contact Information

Email: 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

- OXIRANE
- SILOXANES & SILICONES 71750-79-3
- GRAPHENE, 2, 4, 7, 9-TETRAMETHYLDEC-5-YNE-4, 7-DIOL, 2-DIMETHYLAMINOETHANOL

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

OXIRANE	>1%
SILOXANES & SILICONES 71750-79-3	<10%
GRAPHENE, 2, 4, 7, 9-TETRAMETHYLDEC-5-YNE-4, 7-DIOL, 2-DIMETHYLAMINOETHANOL	<10%

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 (CO₂)

Unsuitable Media:

Water Spray Jet

Special Hazards Arising From The Substance Or Mixture:

Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x), Silicon dioxide (SiO₂)

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.

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: 5-30 C, Sensitive to frost.

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): ≥ 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: LIQUID
Colour: Pale GREY
Odour: FRAGRANCED
pH-Value: 7-8
Solubility: WATER

Changes in the physical state

Melting point: not determined
Initial boiling point and boiling range: N/A
Flash point: N/A

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

No information available.

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 (CO₂). Nitrogen oxides (NO_x). Silicon dioxide (SiO₂)

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; 01.10.2020, 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.