

SAFETY DATA SHEET

Section 1 - Chemical Product and Company Information

Product Name: Graphene Pure
 SDS Date Created: March 04, 2019
 Product Use: Automobile, Marine and Aviation Ceramic Coating Do
 Uses Advised Against: not use on any other surfaces other than instructed
 Emergency Phone: +49 3088789772

Company Information: ONYX Coating GmbH
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Section 2 - Hazards Identification

Classification of the Substance or Mixture:

Flammable	Aspiration	Environmental
Flammable liquid Category 4.	Aspiration toxicant Category 1.	Chronic Aquatic Toxicity Category 3

Label Elements:

Hazard Phrases	
H227: Combustible liquid / H304: May be fatal if swallowed and enters airways / H302 - Harmful if swallowed / H312 - Harmful in contact with skin	
H315 - Causes skin irritation / H320 - Causes eye irritation / H332 - Harmful if inhaled / H336 - May cause drowsiness or dizziness	

Precautionary Phrases
P210 - Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No Smoking. P264 - Wash thoroughly after handling
P261 - Avoid breathing dust/fumes/gas/mist/vapors/spray P273 - Avoid release to the environment without proper governmental permits
P280 - Wear protective gloves/protective clothing/eye protection/face protection P262 - Do not get in eyes, on skin, or on clothing
P284 - In case of inadequate ventilation, wear respiratory protection P301+P310 - IF SWALLOWED: immediately call POISON CENTER/doctor
P305+P351+P338 - IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
P337+P313 - if eye irritation persists, get medical advice/attention P402+P404 - Store in a dry place. Store in a closed container.
P303+P361+P353 - IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower

Other Hazards: No additional information available

SAFETY DATA SHEET

Section 3 - Composition/Information on Ingredients

Mixtures:

Chemical Name	CAS Number / EINECS Number / REACH Reg. Number	Content	CLP/GHS Classification (1272/2008)
Silsesquioxanes, Me	68554-70-1	10-35%	Not classified as hazardous
Siloxanes and silicones, di-Me, methoxyterminated	68951-97-3	1-10%	H226
2-Propanol	67-63-0	10-30%	H225 / H305 / H319 / H336
Polyoxyethylene monooleyl ether	9007-63-0	10-40%	Not classified as hazardous
Trimethoxyvinylsilane	2768-02-7	1-10%	H226 / H400
Catalyst	Proprietary	1-3%	Not classified as hazardous
Phenyltrimethoxysilane	2996-92-1	1-5%	Not classified as hazardous
Graphene Oxide	-	0.1~1%	Not classified as hazardous

See Section 16 for full text of GHS Classifications.

Section 4 - First Aid Measures

Description of First Aid Measures:

- Inhalation: Remove to fresh air, keep patient warm and at rest.
- Skin Contact: Wash skin with soap and water. If irritation develops and persists, get medical attention.
- Eye Contact: Immediately flush eyes with water while lifting the upper and lower lids. Get medical attention if irritation persists.
- Ingestion: Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a person who is unconscious or convulsing. Get medical attention if symptoms develop.

Most important symptoms and effects, both acute and delayed:

May cause mild eye and skin irritation. Ingestion may cause gastrointestinal distress. Inhalation of mists may cause upper respiratory tract irritation.

Indication of any immediate medical attention and special treatment needed:

Immediate medical attention is not generally required.

Section 5 - Fire Fighting Measures

Extinguishing Media:

Use carbon dioxide, dry chemical, foam, or water fog.

SAFETY DATA SHEET

Special Hazards Arising from the Substance or Mixture:

Thermal decomposition products that may develop after the water has evaporated may include carbon and nitrogen oxides.

Advice for Fire-Fighters:

Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals. Cool fire exposed containers with water.

Section 6 - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate protective clothing and equipment as described in Section 8.

Environmental Precautions:

Prevent spill from entering sewers and water courses. Report releases as required by local and national authorities.

Methods and Material for Containment and Cleaning Up:

Stop the spill at the source if without risk. Contain and collect with an inert absorbent material. Place in an appropriate container for disposal.

Reference to Other Sections

Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

Section 7 - Handling & Storage

Precautions for Safe Handling

Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling.

Conditions for Safe Storage, Including any Incompatibilities:

Keep product in its original container. Keep container closed when not in use away from strong oxidizers. Avoid extreme heat and freezing.

Specific end use(s):

Industrial uses: Automobile Coating

Professional uses: Automobile, Marine and Aviation Ceramic Coating

Section 8 - Exposure Controls/Personal Protection

Control Parameters:

Refer to local regulations for exposure limits listed below.

SAFETY DATA SHEET

Chemical Name	US OEL	EU IOEL	German Limits	UK Limits
[(Methylethylene) bis (oxy)] dipropanol	None Established	None Established	None Established	None Established
Dihydroxypropyl PEG-5 Linoleammonium Chloride	None Established	None Established	None Established	None Established
Amorphous silica, colloidal	80 mg/%SiO ₂ TWA OSHA PEL	None Established	4 mg/m ³ (inhalable) TWA	6 mg/m ³ (inhalable), 2.4 mg/m ³ (respirable) TWA

Exposure Controls:

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to minimize exposures levels.

Personal Protective Measures

Respiratory protection: None needed under normal use conditions. If exposure levels are excessive and irritation is experienced, an approved particulate respirator is recommended. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with local regulations and good Industrial Hygiene practice.

Skin protection: Impervious gloves recommended if needed to avoid prolonged skin contact.

Eye protection: Safety glasses or goggles recommended if needed to avoid eye contact.

Other: None known.

Section 9 - Physical & Chemical Properties

Information on basic Physical and Chemical Properties:

Appearance (physical state, color, etc.): Clear liquid.

Odor: Not determined.

Odor threshold: Not determined.	pH: Not applicable.
Melting point/freezing point: < - 40°C	Boiling Point: > 205°C
Flash point: 121°C	Evaporation rate (butyl acetate =1): Not applicable.
Flammability (solid, gas): Not applicable.	VOC: Not applicable.
Flammable limits: LEL: Not applicable.	UEL: Not applicable.
Vapor pressure: 0.0985 mmHg	Vapor density: Not determined.
Relative density: 1.01	Solubility(ies): Insoluble in water.
Partition coefficient: n-octanol/water: Not determined.	Auto-ignition temperature: Not applicable.
Decomposition temperature: Not determined.	Viscosity: 5-12 cSt
Explosive Properties: Not applicable.	Oxidizing Properties: Not applicable.

SAFETY DATA SHEET

Section 10 - Stability & Reactivity

Reactivity: Reacts with water and moisture in air liberating methanol.

Chemical stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Reacts with water and moisture in air liberating methanol.

Conditions to Avoid: Moist Air.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: In combustion emits toxic fumes of organic acid vapours, formaldehyde, silicon dioxide, methanol

Section 11 - Toxicological Information

Potential Health Effects:

Inhalation: Inhalation may cause mild irritation to the upper respiratory tract.

Ingestion: May cause mucous membrane and gastrointestinal irritation and other adverse effects.

Skin contact: Prolonged skin contact may cause mild skin irritation.

Eye contact: Contact may cause mild irritation with redness and tearing.

Chronic Effects: Prolonged overexposure to dust or mist of colloidal silica (synthetic amorphous silica) may cause lung damage (pneumoconiosis).

Sensitization: Components are not known to be sensitizers.

Skin corrosion/irritation: Contains component that is a skin irritant.

Eye damage/ irritation: Contains component that is an eye irritant.

Respiratory Irritation: No data available.

Respiratory Sensitization: Components are not respiratory sensitizers.

Skin Sensitization: None of the components have been shown to cause skin sensitization.

Germ Cell Mutagenicity: Components are not germ cell mutagens.

Carcinogenicity: None of the components of this product are listed as carcinogens by IARC, NTP, US OSHA or the EU CLP or classified as carcinogens under the GHS.

Reproductive Toxicity: No adverse effects are expected. Components are not reproductive toxins.

Aspiration Hazard: None of the components are aspiration hazards.

Specific Target Organ Toxicity:

Single Exposure: No adverse effects are expected.

Repeat Exposure: No data available.

Acute Toxicity Values:

Relevant components are not acutely toxic.

Section 12 - Ecological Information

Toxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Results of PBT and vPvB assessment: No data available

Other Adverse Effects: Do not allow product to reach ground water, water bodies or sewage system, even in small quantities

SAFETY DATA SHEET

Section 13 - Disposal Considerations

Disposal Operations: Consult state, local or national regulations for proper disposal. Hand over to authorised disposal company as hazardous waste.

Disposal of Packaging: Disposal must be made according to official regulations.

Section 14 - Transportation Information

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
US DOT		Not classified as hazardous for transport			
Canadian TDG		Not classified as hazardous for transport			
EU ADR/RID		Not classified as hazardous for transport			
IMDG		Not classified as hazardous for transport			
IATA/ICAO		Not classified as hazardous for transport			

Special Precautions for User: None known.

Section 15 - Regulatory Information

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

EPA Toxic Substances Control Act (TSCA): All of the components of this product are listed on the TSCA Inventory or exempted from TSCA.

SARA 302 Listed Chemicals: None.

SARA 311/312 Hazard Categories: Not Hazardous

SARA 313 This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under the SARA Section 313 (40 CFR 372): None

California Proposition 65: This product does not contain chemicals listed per the Safe Drinking Water and Toxic Enforcement Act of 1986.

International Regulations:

Canadian Environmental Protection Act: One or more of the components of this product are not listed on the Canadian Domestic Substances List.

European Union: All of the components are listed REACH Registered or Pre-Registered Substances and Intermediates.

Australia: All of the ingredients of this product are not listed on the Australian Inventory of Chemical Substances (AICS).

SAFETY DATA SHEET

China: All of the ingredients of this product are listed on the Inventory of Existing Chemical Substance in China (IECSC).

Korea: One or more of the components of this product are not listed on the Korean Existing Chemical List (KECL).

Japan: One or more of the components of this product are not listed on the Japanese Existing and New Chemical Substances List (ENCS).

New Zealand: All of the components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC).

Philippines: All of the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

Taiwan: All the components are listed on the existing chemicals inventory.

Section 16 - Other Information

HMIS Ratings: Health - 0

Flammability - 1

Physical Hazard - 0

NFPA Ratings: Health - 0

Flammability - 1

Instability - 0

CLP/GHS Classification and H Phrases for Reference (See Section 3)

Aquatic Chronic Tox. 2 - Aquatic Chronic Toxicity Category 2

Eye Irritation 2 - Eye Irritation Category 2

Skin Irritation 2 - Skin Irritation Category 2

STOT RE 3 - Specific Target Organ Toxicity Repeat Exposure Category 3

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

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