

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****1.1. Product Identifier**

Trade name: APP for AD Graphene Coat - Graphene coating | 50 ml

Trade code: 223005

**1.2. Relevant identified uses of the substance/mixture and uses advised against**

Graphene coating

Uses advised against: other.

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

Company: APP Sp. z o. o.  
ul. Przemysłowa 10, 62 – 300 Września  
Tel. +48 (061) 437 00 00  
Fax. +48 (061) 437 91 37  
Mail: [app@app.com.pl](mailto:app@app.com.pl)  
Strona WEB: [www.app.com.pl](http://www.app.com.pl)

Safety Data Sheet e-mail: [dzp@app.com.pl](mailto:dzp@app.com.pl)**1.4. Emergency telephone number:**

+48 (61) 437 00 00

Date of issue: 22.05.2023

**SECTION 2. HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008



GHS02



GHS05



GHS07



GHS08

Dgr

FlamLiq2: H225 Highly flammable liquid and vapour

AcuteTox4: H302 Harmful if swallowed

AspTox1: H304 May be fatal if swallowed and enters airways

AcuteTox4: H312 Harmful in contact with skin

SkinCorr: H314 Causes severe skin burns and eye damage

SkinSens:H317 May cause an allergic skin reaction

AcuteTox4: H332 Harmful if inhaled

AquaticChronic3: H412 Harmful to aquatic life with long lasting effects

EUH066 Repeated exposure may cause skin dryness or cracking.

**2.2. Label elements****Labelling according Regulation (EC) No 1272/2008**

Contains:

xylene

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, &lt;2% aromatics

Methyltrimethoxysilane

Organic polysilazane compound

3-aminopropyltriethoxysilane

Dibutyl laurate

**Signal word:**

Danger

**Pictogram:**



GHS02



GHS05



GHS07



GHS08

**Hazard statement(s)**

- H225 Highly flammable liquid and vapour
- H302 Harmful if swallowed
- H304 May be fatal if swallowed and enters airways
- H312 Harmful in contact with skin
- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction
- H332 Harmful if inhaled
- H412 Harmful to aquatic life with long lasting effects
- EUH066 Repeated exposure may cause skin dryness or cracking.

**Precautionary statement(s)**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+ P330+ P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P303+ P361+ P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P403 Store in a well-ventilated place.
- P501 Dispose of contents/container to an authorised waste collection point.

**2.3 Other hazards**

Does not fulfil criteria of PBT and vPvB according to annex XIII 1907/2006  
UN: 2924

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**


**3.1. Substances**

N.A.

**3.2. Mixtures**

**Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:**

Name	Conc.	CAS No	Index No	EC No	Classification:
xylene REACH: 01-2119488216-32	25-50%	1330-20-7	601-022-00-9	215-535-7	GHS02; GHS07 ; GHS08 Flam. Liq.3: H226 AspTox1: H304 STOT RE2: H373 AcuteTox4: H302+H312+H332 SkinIrrit2: H315 EyeIrrit2: H319
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics REACH: 01-2119457273-39	<25%	-	-	918-481-9	GHS08; Asp.Tox1: H304 EUH066
Methyltrimethoxysilane REACH: 01-2119517436-40	<25%	1185-55-3	-	214-685-0	GHS02; GHS07 FlamLiq2: H225 SkinSens1: H317
Organic polysilazane compound	<25%	475645-84-2	-	-	GHS02; GHS05; GHS07 ; Flam. Liq.2: H225

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					AcuteTox4: H302 SkinCorr1B: H314 AquaticChronic3: H412
Methyltrimethoxysilane REACH: 01-2119972313-39	<2,5%	2943-75-1	brak	220-941-2	GHS07 SkinIrrit2: H315
3-aminopropyltriethoxysilane REACH: 01-2119480479-24	<1%	919-30-2	612-108-00-0	213-048-4	GHS05; GHS07 AcuteTox4: H302 SkinCorr1B: H314 SkinSens1: H317
Dibutyl laurate REACH: 01-2119496068-27	<0,3%	77-58-7	brak	201-039-8	GHS06; GHS07; GHS08; GHS09 AcuteTox3: H301 Muta2: H341 Repr1B: H360 STOT RE1: H372 AquaticAcute1: H400 AquaticChronic1: H410 AcuteTox4: H312 SkinIrrit2: H315 EyeIrrit2: H319
Methanol :REACH: 01-2119433307-44	<1%	67-56-1	603-001-00-X	200-659-6	GHS02; GHS06 Flam. Liq. 2: H225 Acute Tox. 3: H301 Acute Tox. 3: H311 Acute Tox. 3, H331 STOT SE 1: H370 Specific concentration limit STOT SE 1; H370: C≥10 % STOT SE 2; H371: 3 % ≤ C<10 %

Full text of H-Phrases can be found under heading 16

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### In case of skin contact:

Immediately take off all contaminated clothing. After contact with skin, wash immediately with soap and plenty of water. . In case of irritation, consult a doctor

#### In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time. In case of irritation, consult an ophthalmologist. Remove Contact Lenses

#### In case of Ingestion:

Do not under any circumstances induce vomiting. Never give anything by mouth to an unconscious person. Consult a doctor immediately and show him label or Safety Data Sheet.

#### In case of Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of respiration problems , consult a doctor immediately and show him label or Safety Data Sheet.

### 4.2. Most important symptoms and effects, both acute and delayed:

Harmful if swallowed

May be fatal if swallowed and enters airways

Harmful in contact with skin

Causes severe skin burns and eye damage

May cause an allergic skin reaction

Harmful if inhaled

### 4.3. Indication of any immediate medical attention and special treatment needed

In case if ingestion consult a doctor.



**Treatment:**

None

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**SECTION 5. FIRE-FIGHTING MEASURES**

**5.1. Extinguishing media**

**Suitable extinguishing media:**

Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

**Extinguishing media which must not be used for safety reasons:**

Water jet.

**5.2. Special hazards arising from the substance or mixture:**

Highly flammable liquid and vapour. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Toxic fumes may be evolved on burning or exposure to heat. Do not inhale explosion and combustion gases.

**5.3. Advice for fire-fighters**

Fires in confined spaces should be dealt with by trained personnel wearing approved air supplied breathing apparatus. Water may be used to cool nearby heat exposed areas/objects/packages. Avoid spraying directly into storage containers because of the danger of boil-over. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

**6.2. Environmental precautions**

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

Retain contaminated washing water and dispose it.

**6.3. Methods and material for containment and cleaning up**

Contain and recover liquid using sand or other suitable inert absorbent material. It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonably anticipated. Recovery of large spillages should be effected by specialist personnel. Protect drains from potential spills to minimise contamination. Do not wash product into drainage system. Large and uncontained spillages should be smothered in foam to reduce the risk of ignition. The foam blanket should be maintained until the area is declared safe. Vapour is heavier than air and may travel to remote sources of ignition (e.g. along drainage systems, in basements, etc.). In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and water supplies. In case of spillage at sea, approved dispersants may be used where authorized by the appropriate regulatory authority. In the event of spillages, contact the appropriate authorities.

**6.4. Reference to other sections**

See Section 8 for information on personal protection equipment.

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**SECTION 7. HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Avoid breathing vapours or contact with material. Only use in well ventilated areas. Wash thoroughly after handling.

Air-dry contaminated clothing in a well-ventilated area before laundering. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use local exhaust ventilation if there is risk of inhalation of vapours. Prevent spillages. For comprehensive advice on handling, product transfer, storage and tank cleaning refer to the product supplier. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

**7.2. Conditions for safe storage, including any incompatibilities**

Store and dispense only in well ventilated areas away from heat and sources of ignition. Store and use only in equipment/containers designed for use with the product. Containers must be properly labelled and kept closed when not in use. Do not remove warning labels from containers. Do not re-use container for any other product. Empty packages may retain residual product; retain hazard warning labels on empty packages as a guide to their safe handling, storage and disposal. Do not introduce an ignition source. Heating may cause an explosion. Storage on solid, hydrocarbons-proof floor.

**7.3. Specific end use(s)**

None.



## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

N.A.

### 8.2. Exposure controls

Do not eat, drink or smoke while working. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.

#### Eye protection:

Wear face visor or goggles in circumstances where eye contact can accidentally occur.

#### Protection for skin/hands:

If skin contact is likely, wear impervious protective clothing and/or gloves (nitrile :  $\geq 0.45$  mm, 240 min. ). Protective clothing should be regularly inspected and maintained. Change heavily contaminated clothing as soon as reasonably practicable and launder before re-use. Wash any contaminated underlying skin with soap and water.

#### Respiratory protection:

Respiratory protection is normally unnecessary, provided the concentration of vapour is adequately controlled. If operations are such that the excessive generation and inhalation of vapour may be anticipated, then suitable approved organic vapour and particulate respiratory equipment should be worn

#### Thermal Hazards:

None

#### Environmental exposure controls:

None

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance and colour: liquid, black

Odour: characteristic

Odour threshold: N.D.

pH: N.A.

Melting point / freezing point: N.D.

Initial boiling point and boiling range: 146°C

Upper/lower flammability or explosive limits: -

Vapour density: N.D.

Flash point: 21°C

Evaporation rate: N.A.

Vapour pressure: N.D.

Density: N.D.

Solubility in water: insoluble

Solubility in organic solvents: soluble in aromatic solvents

Lipid solubility: N.A.

Partition coefficient (n-octanol/water): N.A.

Ignition temperature: N.D.

Auto-ignition temperature: 265°C

Decomposition temperature: N.A.

Viscosity dyn.:  $>20,5$  mm<sup>2</sup>/s (40°C)

Viscosity kin.: N.D.

Explosive properties: can form an explosive mixture in air

Oxidizing properties: not oxidizing

### 9.2. Other information

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## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Mixture is not reactive.

### 10.2. Chemical stability

Stable under normal conditions of handling and storage.

### 10.3. Possibility of hazardous reactions

None.

### 10.4. Conditions to avoid

- solar radiation
- sparks
- flame
- heat



**10.5. Incompatible materials**

- strong bases

**10.6. Hazardous decomposition products**

None.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**a) acute toxicity:** Harmful if swallowed . Harmful in contact with skin . Harmful if inhaled

**b) skin corrosion/irritation:** Causes severe skin burns and eye damage

**c) serious eye damage/irritation:** Causes severe skin burns and eye damage

**d) respiratory or skin sensitization:** May cause an allergic skin reaction

**e) germ cell mutagenicity:** no hazard

**f) carcinogenicity:** no hazard

**g) reproductive toxicity:** no hazard

**h) STOT-single exposure:** no hazard

**i) STOT-repeated exposure:** no hazard

**j) aspiration hazard:** May be fatal if swallowed and enters airways

**Toxicological information of components:**

**11.2. Information on other hazards**

11.2.1. Endocrine disrupting properties

- no data

11.2.2. Other information

Repeated exposure may cause skin dryness or cracking.

**SECTION 12. ECOLOGICAL INFORMATION**

**12.1. Toxicity**

Harmful to aquatic life with long lasting effects

**12.2. Persistence and degradability**

Expected to be biodegradable. High volatility and fast evaporation. Mixture is not soluble in water. Mixture undergoes photolysis in air.

**12.3. Bioaccumulative potential**

No data.

**12.4. Mobility in soil**

No data

**12.5. Results of PBT and vPvB assessment**

vPvB Substances: None - PBT Substances: None

**12.6. Endocrine disrupting properties**

None

**12.7. Other adverse effects**

None

**SECTION 13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations or if approved allowed to degrade in situ. Dispose of product and container carefully and responsibly. Do not dispose of near ponds, ditches, down drains or onto soil. Empty packages may contain some remaining product. Hazard warning labels are a guide to the safe handling of empty packages and should not be removed.

**SECTION 14. TRANSPORT INFORMATION**

**14.1. UN number**

2924

**14.2. UN proper shipping name**

FLAMMABLE LIQUID, CORROSIVE, N.O.S.

**14.3. Transport hazard class(es)**

3

**14.4. Packing Group**

II

**14.5. Environmental hazards**

No

**14.6. Special Precautions for User**

During handling wear personal protection equipment (see Section 8)



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Avoid heat and flame.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

N.A.

Label: 3+8

**SECTION 15. REGULATORY INFORMATION**

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

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n.1272/2008 (CLP), Regulation (CE) n.790/2009.

**Where applicable, refer to the following regulatory provisions :**

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

**15.2. Chemical Safety Assessment**

No

**SECTION 16. OTHER INFORMATION**

Full text of phrases referred to in Section 3:

H225 Highly flammable liquid and vapour

H226 Flammable liquid and vapour

H302 Harmful if swallowed

H304 May be fatal if swallowed and enters airways

H311 Toxic in contact with skin

H312 Harmful in contact with skin

H314 Causes severe skin burns and eye damage

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H319 Causes serious eye irritation

H331 Toxic if inhaled

H332 Harmful if inhaled

H360 May damage fertility or the unborn child (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

H370 Causes damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

H372 Causes damage to organs through prolonged or repeated exposure (state all organs affected, if known) through prolonged or repeated exposure (stateroute of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

H411 Toxic to aquatic life with long lasting effects

H412 Harmful to aquatic life with long lasting effects

EUH066 Repeated exposure may cause skin dryness or cracking.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.