



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Adam's Graphene Ceramic Coating - UV Reactive

Version number: GHS 10.0
Replaces version of: 2024-04-03 (GHS 9)

Revision: 2024-11-22

SECTION 1: Identification

1.1 Product identifier

Trade name **Adam's Graphene Ceramic Coating - UV Reactive**
ADP600-11

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Polymeric automobile paint sealant
Vehicle coating
Professional use
Industrial use

HS code 3208.90.00.

1.3 Details of the supplier of the safety data sheet

Adam's Polishes Inc.
8225 North Valley Hwy.
Thornton CO 80221
720-484-5059

tips@adamspolishes.com
www.adamspolishes.com

1.4 Emergency telephone number

Emergency information service USA 1.800.535.5053, INTL 1.352.323.3500
24 hour emergency number

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Section | Hazard class | Hazard class and category | Hazard statement |
|---------|-----------------------------------|---------------------------|------------------|
| A.3 | serious eye damage/eye irritation | Eye Dam. 1 | H318 |
| A.4S | skin sensitization | Skin Sens. 1 | H317 |
| A.6 | carcinogenicity | Carc. 2 | H351 |
| A.10 | aspiration hazard | Asp. Tox. 1 | H304 |
| B.6 | flammable liquid | Flam. Liq. 3 | H226 |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources. The mixture contains a substance that was identified as a PBT (persistent, bioaccumulative and toxic). The mixture contains a substance that was identified as vPvB (very persistent and very bioaccumulative).

Additional information

Contains a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.



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2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

- Pictograms

GHS02, GHS05,
GHS07, GHS08



- Hazard statements

| | |
|------|---|
| H226 | Flammable liquid and vapor. |
| H304 | May be fatal if swallowed and enters airways. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H351 | Suspected of causing cancer. |

- Precautionary statements

| | |
|----------------|--|
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray. |
| P272 | Contaminated work clothing must not be allowed out of the workplace. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P310 | If swallowed: Immediately call a poison center/doctor. |
| P302+P352 | If on skin: Wash with plenty of water. |
| P303+P361+P353 | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P321 | Specific treatment (see on this label). |
| P331 | Do NOT induce vomiting. |
| P363 | Wash contaminated clothing before reuse. |
| P370+P378 | In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

- Hazardous ingredients for labelling parachlorobenzotrifluoride, polyurea silazane, distillates (petroleum) hydrotreated, light

2.3 Other hazards

Results of PBT and vPvB assessment

Contains a PBT-substance at a concentration of $\geq 0.1\%$. Contains a vPvB-substance at a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.



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SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Hazardous ingredients acc. to GHS | | | |
|--|------------------------|-----------|--|
| Name of substance | Identifier | Wt% | Classification acc. to GHS |
| decamethylcyclopentasiloxane | CAS No 541-02-6 | 30 - < 60 | Flam. Liq. 4 / H227 |
| parachlorobenzotrifluoride | CAS No 98-56-6 | 10 - < 30 | Skin Sens. 1B / H317 Carc. 2 / H351 Flam. Liq. 3 / H226 |
| distillates (petroleum) hydrotreated, light | CAS No 64742-47-8 | 10 - < 30 | Asp. Tox. 1 / H304 |
| polyurea silazane | CAS No 2649792-57-2 | 5 - < 10 | Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 |

Remarks

For full text of abbreviations: see SECTION 16. Exact percentage of ingredients is withheld as a trade secret.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO2)



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5.2 Special hazards arising from the substance or mixture

none In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.



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Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingsuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)
this information is not available

| Relevant DNELs of components | | | | | | |
|------------------------------|----------|-----------|-----------------------|------------------------------------|-------------------|----------------------------|
| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| decamethylcyclopentasiloxane | 541-02-6 | DNEL | 97 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| decamethylcyclopentasiloxane | 541-02-6 | DNEL | 24 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| decamethylcyclopentasiloxane | 541-02-6 | DNEL | 97 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| decamethylcyclopentasiloxane | 541-02-6 | DNEL | 24 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| parachlorobenzotrifluoride | 98-56-6 | DNEL | 1 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| parachlorobenzotrifluoride | 98-56-6 | DNEL | 0.4 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| parachlorobenzotrifluoride | 98-56-6 | DNEL | 18 µg/cm ² | human, dermal | worker (industry) | acute - local effects |



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| Relevant PNECs of components | | | | | | |
|------------------------------|----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| decamethylcyclopentasiloxane | 541-02-6 | PNEC | 10 mg/l | microorganisms | sewage treatment plant (STP) | short-term (single instance) |
| decamethylcyclopentasiloxane | 541-02-6 | PNEC | 11 mg/kg | benthic organisms | sediment | short-term (single instance) |
| decamethylcyclopentasiloxane | 541-02-6 | PNEC | 13 mg/kg | (top) predators | water | short-term (single instance) |
| decamethylcyclopentasiloxane | 541-02-6 | PNEC | 1.1 mg/kg | pelagic organisms | sediment | short-term (single instance) |
| decamethylcyclopentasiloxane | 541-02-6 | PNEC | 1.2 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| decamethylcyclopentasiloxane | 541-02-6 | PNEC | 0.12 µg/l | aquatic organisms | marine water | short-term (single instance) |
| decamethylcyclopentasiloxane | 541-02-6 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| decamethylcyclopentasiloxane | 541-02-6 | PNEC | 11 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| decamethylcyclopentasiloxane | 541-02-6 | PNEC | 1.1 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| decamethylcyclopentasiloxane | 541-02-6 | PNEC | 2.5 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| parachlorobenzotrifluoride | 98-56-6 | PNEC | 2 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| parachlorobenzotrifluoride | 98-56-6 | PNEC | 0.2 µg/l | aquatic organisms | marine water | short-term (single instance) |
| parachlorobenzotrifluoride | 98-56-6 | PNEC | 0.032 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| parachlorobenzotrifluoride | 98-56-6 | PNEC | 0.022 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| parachlorobenzotrifluoride | 98-56-6 | PNEC | 0.002 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| parachlorobenzotrifluoride | 98-56-6 | PNEC | 0.026 mg/kg | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.



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Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|----------------|-----------------------|
| Physical state | liquid |
| Color | colorless - black |
| Particle | not relevant (liquid) |
| Odor | characteristic |

Other safety parameters

| | |
|---|-----------------------|
| pH (value) | not determined |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | >65 °C at 1 atm |
| Flash point | 55 °C at 101 kPa |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | not relevant, (fluid) |

Explosive limits

| | |
|-------------------------------|---|
| - Lower explosion limit (LEL) | 0.6 vol% |
| - Upper explosion limit (UEL) | 4.9 vol% |
| Vapor pressure | 33 Pa at 25 °C |
| Density | not determined |
| Vapor density | this information is not available |
| Relative density | Information on this property is not available |



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| | |
|--|--|
| Solubility(ies) | not determined |
| Partition coefficient | |
| - n-octanol/water (log KOW) | this information is not available |
| Auto-ignition temperature | 262 °C (auto-ignition temperature (liquids and gases)) |
| Viscosity | not determined |
| Explosive properties | none |
| Oxidizing properties | none |
| Temperature class (USA, acc. to NEC 500) | T2B (maximum permissible surface temperature on the equipment: 260 °C) |

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).



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Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful in contact with skin.

Acute toxicity estimate (ATE) of components

| Name of substance | CAS No | Exposure route | ATE |
|-------------------|--------------|----------------|-----------|
| polyurea silazane | 2649792-57-2 | oral | 500 mg/kg |

Acute toxicity of components

| Name of substance | CAS No | Exposure route | Endpoint | Value | Species |
|---|--------------|-----------------------|----------|----------------|---------|
| decamethylcyclpentasiloxane | 541-02-6 | oral | LD50 | >5,000 mg/kg | rat |
| decamethylcyclpentasiloxane | 541-02-6 | inhalation: dust/mist | LC50 | 8.7 mg/l/4h | rat |
| decamethylcyclpentasiloxane | 541-02-6 | dermal | LD50 | >2,000 mg/kg | rabbit |
| parachlorobenzotrifluoride | 98-56-6 | oral | LD50 | 5,546 mg/kg | rat |
| parachlorobenzotrifluoride | 98-56-6 | inhalation: dust/mist | LC50 | >32 mg/l/4h | rat |
| parachlorobenzotrifluoride | 98-56-6 | dermal | LD50 | >3,300 mg/kg | rabbit |
| distillates (petroleum) hydrotreated, light | 64742-47-8 | oral | LD50 | >5,000 mg/kg | rat |
| distillates (petroleum) hydrotreated, light | 64742-47-8 | inhalation: vapor | LC50 | >5,000 mg/l/4h | rat |
| distillates (petroleum) hydrotreated, light | 64742-47-8 | dermal | LD50 | >5,000 mg/kg | rabbit |
| polyurea silazane | 2649792-57-2 | oral | LD50 | 500 mg/kg | rat |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.



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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

| Name of substance | CAS No | Classification | Remarks | Number |
|----------------------------|---------|----------------|---------|--------|
| parachlorobenzotrifluoride | 98-56-6 | 2B | | |

Legend

2B Possibly carcinogenic to humans

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

| Aquatic toxicity (acute) of components | | | | | |
|--|----------|----------|------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| decamethylcyclopentasiloxane | 541-02-6 | LC50 | >16 µg/l | fish | 96 h |
| decamethylcyclopentasiloxane | 541-02-6 | EC50 | >2.9 µg/l | aquatic invertebrates | 48 h |
| parachlorobenzotrifluoride | 98-56-6 | LC50 | 3 mg/l | fish | 48 h |
| parachlorobenzotrifluoride | 98-56-6 | ErC50 | >0.41 mg/l | algae | 72 h |
| parachlorobenzotrifluoride | 98-56-6 | EC50 | >0.41 mg/l | algae | 72 h |

| Aquatic toxicity (chronic) of components | | | | | |
|--|----------|----------|----------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| decamethylcyclopentasiloxane | 541-02-6 | LC50 | >16 µg/l | fish | 14 d |
| decamethylcyclopentasiloxane | 541-02-6 | EC50 | >15 µg/l | aquatic invertebrates | 21 d |
| parachlorobenzotrifluoride | 98-56-6 | LC50 | 6.5 mg/l | fish | 24 h |
| parachlorobenzotrifluoride | 98-56-6 | EC50 | 242 mg/l | microorganisms | 30 min |



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Aquatic toxicity (chronic) of components

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|-------------------|--------|----------|-------|---------|---------------|
| ide | | | | | |

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Contains a PBT-substance at a concentration of $\geq 0.1\%$. Contains a vPvB-substance at a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

| | |
|-----------|---------|
| DOT | UN 1993 |
| IMDG-Code | UN 1993 |
| ICAO-TI | UN 1993 |

14.2 UN proper shipping name

| | |
|-----------|--------------------------|
| DOT | Flammable liquid, n.o.s. |
| IMDG-Code | FLAMMABLE LIQUID, N.O.S. |
| ICAO-TI | Flammable liquid, n.o.s. |



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| | |
|--|--------------------------------------|
| Technical name (hazardous ingredients) | parachlorobenzotrifluoride |
| 14.3 Transport hazard class(es) | |
| DOT | 3 |
| IMDG-Code | 3 |
| ICAO-TI | 3 |
| 14.4 Packing group | |
| DOT | III |
| IMDG-Code | III |
| ICAO-TI | III |
| 14.5 Environmental hazards | hazardous to the aquatic environment |
| Environmentally hazardous substance (aquatic environment) | decamethylcyclopentasiloxane |
| 14.6 Special precautions for user | |
| There is no additional information. | |
| 14.7 Transport in bulk according to IMO instruments | |
| The cargo is not intended to be carried in bulk. | |

Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT)

| | |
|---|---|
| Particulars in the shipper's declaration | UN1993, Flammable liquid, n.o.s., (contains: parachlorobenzotrifluoride), 3, III, environmentally hazardous |
| Danger label(s) | 3, fish and tree |
|   | |
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Special provisions (SP) | B1, B52, IB3, T4, TP1, TP29 |
| ERG No | 128 |

International Maritime Dangerous Goods Code (IMDG)

| | |
|---|---|
| Marine pollutant | yes (hazardous to the aquatic environment) (decamethylcyclopentasiloxane) |
| Danger label(s) | 3, fish and tree |
|   | |
| Special provisions (SP) | 223, 274, 955 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 L |




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| | |
|---|--|
| EmS | F-E, <u>S-E</u> |
| Stowage category | A |
| International Civil Aviation Organization (ICAO-IATA/DGR) | |
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Danger label(s) | 3 |
|  | |
| Special provisions (SP) | A3 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 10 L |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

none of the ingredients are listed

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

none of the ingredients are listed

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

| Cleaning Product Right to Know Act Substance List (CA-RTK) | | | |
|--|--------------|------------------|---|
| Name of substance | CAS No | Functionality | Authoritative Lists |
| decamethylcyclopentasiloxane | 541-02-6 | solvents | Canada PBiTs CECBP - Priority Chemicals EC PBTs |
| parachlorobenzotrifluoride | 98-56-6 | solvents | |
| distillates (petroleum) hydrotreated, light | 64742-47-8 | solvents | |
| polyurea silazane | 2649792-57-2 | refractory resin | |
| fluorine modified silicone fluid | 115361-68-7 | surface modifier | |
| trimethylsiloxysilicate | 68988-56-7 | resin | |
| polydimethylsiloxane | 63148-62-9 | surface modifier | |



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| Cleaning Product Right to Know Act Substance List (CA-RTK) | | | |
|--|--------------|------------------|---------------------|
| Name of substance | CAS No | Functionality | Authoritative Lists |
| polytrimethylhydrosilylsiloxane | 68988-56-7 | surface modifier | |
| Graphene | 1034343-98-0 | surface modifier | |
| tetra(trimethylsiloxy)silane | 3555-47-3 | surface modifier | Canada PBiTs |
| 7-(diethylamino)-4-methyl-2H-chromen-2-one | 91-44-1 | colorant | |

- Toxic or Hazardous Substance List (MA-TURA)
none of the ingredients are listed
- Hazardous Substances List (MN-ERTK)
none of the ingredients are listed
- Hazardous Substance List (NJ-RTK)
none of the ingredients are listed
- Hazardous Substance List (Chapter 323) (PA-RTK)
none of the ingredients are listed
- Hazardous Substance List (RI-RTK)
none of the ingredients are listed

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

| Proposition 65 List of chemicals | | | | |
|---|---------|-----|---------|----------------------|
| Name acc. to inventory | CAS No | Wt% | Remarks | Type of the toxicity |
| p-chloro- α,α,α -trifluorotoluene (para-Chlorobenzotrifluoride, PCBTF) | 98-56-6 | 22 | | cancer |

VOC content

- Regulated Volatile Organic Compounds (VOC-EPA) 0 %
- Regulated Volatile Organic Compounds (VOC-Cal ARB) 0 %

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category | Rating | Description |
|---------------------|--------|--|
| Chronic | * | chronic (long-term) health effects may result from repeated overexposure |
| Health | 3 | major injury likely unless prompt action is taken and medical treatment is given |
| Flammability | 2 | material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur |
| Physical hazard | 0 | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | - | |



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| | |
|----------------------|--|
| Chronic: | chronic hazard |
| Flammability: | flammability hazards |
| Health: | health hazard |
| Personal protection: | personal protective equipment (PPE) for normal use |
| Physical hazard: | reactivity |

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category | Degree of hazard | Description |
|----------------|------------------|--|
| Flammability | 2 | material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur |
| Health | 3 | material that, under emergency conditions, can cause serious or permanent injury |
| Instability | 0 | material that is normally stable, even under fire conditions |
| Special hazard | | |

National inventories

| Country | Inventory | Status |
|---------|------------|---|
| CA | DSL | not all ingredients are listed |
| CA | NDSL | not all ingredients are listed |
| EU | REACH Reg. | not all ingredients are listed |
| US | TSCA | all ingredients are listed or exempt from listing |
| AU | AIIC | not all ingredients are listed |
| CN | IECSC | not all ingredients are listed |
| EU | ECSI | not all ingredients are listed |
| JP | CSCL-ENCS | not all ingredients are listed |
| JP | ISHA-ENCS | not all ingredients are listed |
| KR | KECI | not all ingredients are listed |
| MX | INSQ | not all ingredients are listed |
| NZ | NZIoC | not all ingredients are listed |
| PH | PICCS | not all ingredients are listed |
| TR | CICR | not all ingredients are listed |
| TW | TCSI | not all ingredients are listed |
| VN | NCI | not all ingredients are listed |

Legend

| | |
|-----------|---|
| AIIC | Australian Inventory of Industrial Chemicals |
| CICR | Chemical Inventory and Control Regulation |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS) |
| DSL | Domestic Substances List (DSL) |
| ECSI | EC Substance Inventory (EINECS, ELINCS, NLP) |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |



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Legend

| | |
|------------|---|
| INSQ | National Inventory of Chemical Substances |
| ISHA-ENCS | Inventory of Existing and New Chemical Substances (ISHA-ENCS) |
| KECI | Korea Existing Chemicals Inventory |
| NCI | National Chemical Inventory |
| NDSL | Non-domestic Substances List (NDSL) |
| NZIoC | New Zealand Inventory of Chemicals |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg. | REACH registered substances |
| TCSI | Taiwan Chemical Substance Inventory |
| TSCA | Toxic Substance Control Act |

Additional information

The contained substances are listed in the following national inventories:
DSL/NDSL (Canada)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information, including date of preparation or last revision

Indication of changes (revised safety data sheet)

Alignment to regulation: Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").
Restructuring: section 9, section 14

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|---|-----------------|
| 1.1 | Trade name: Adam's Graphene Ceramic Coating - UV Reactive | Trade name: Adam's Graphene Ceramic Coating - UV ReactiveADP600-11 | yes |
| 1.2 | Uses advised against: Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin. | | yes |
| 2.1 | | Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): change in the listing (table) | yes |
| 2.1 | The most important adverse physicochemical, human health and environmental effects: Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. The product is combustible and can be ignited by potential ignition sources. The mixture contains a substance that was identified as a PBT (persistent, bioaccumulative and toxic). The mixture contains a substance that was identified as vPvB (very persistent and very bioaccumulative). | The most important adverse physicochemical, human health and environmental effects: The product is combustible and can be ignited by potential ignition sources. The mixture contains a substance that was identified as a PBT (persistent, bioaccumulative and toxic). The mixture contains a substance that was identified as vPvB (very persistent and very bioaccumulative). | yes |
| 2.2 | | - Hazard statements: change in the listing (table) | yes |
| 2.2 | | - Precautionary statements: change in the listing (table) | yes |
| 2.2 | - Hazardous ingredients for labelling: parachlorobenzotrifluoride, Cyclosilazanes, di-Me, | - Hazardous ingredients for labelling: parachlorobenzotrifluoride, polyurea silazane, distil- | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|--|-----------------|
| | Me Hydrogen, polymers with di-Me, Me hydrogen silazanes, and 2,4-TDI, distillates (petroleum) hydrotreated, light | lates (petroleum) hydrotreated, light | |
| 3.2 | | Hazardous ingredients acc. to GHS: change in the listing (table) | yes |
| 3.2 | Remarks: For full text of abbreviations: see SECTION 16. | Remarks: For full text of abbreviations: see SECTION 16. Exact percentage of ingredients is withheld as a trade secret. | yes |
| 4.1 | Following inhalation: If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air. | Following inhalation: If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air. | yes |
| 9.1 | Density: 0.95 g/ml | Density: not determined | yes |
| 9.1 | | Relative density: Information on this property is not available | yes |
| 11.1 | | Acute toxicity estimate (ATE) of components: change in the listing (table) | yes |
| 11.1 | | Acute toxicity of components: change in the listing (table) | yes |
| 11.1 | Skin corrosion/irritation: Causes severe skin burns and eye damage. | Skin corrosion/irritation: Shall not be classified as corrosive/irritant to skin. | yes |
| 12.1 | | Aquatic toxicity (acute) of components: change in the listing (table) | yes |
| 14.1 | DOT: UN 2920 | DOT: UN 1993 | yes |
| 14.1 | IMDG-Code: UN 2920 | IMDG-Code: UN 1993 | yes |
| 14.1 | ICAO-TI: UN 2920 | ICAO-TI: UN 1993 | yes |
| 14.2 | DOT: Corrosive liquid, flammable, n.o.s. | DOT: Flammable liquid, n.o.s. | yes |
| 14.2 | IMDG-Code: CORROSIVE LIQUID, FLAMMABLE, N.O.S. | IMDG-Code: FLAMMABLE LIQUID, N.O.S. | yes |
| 14.2 | ICAO-TI: Corrosive liquid, flammable, n.o.s. | ICAO-TI: Flammable liquid, n.o.s. | yes |
| 14.2 | Technical name (hazardous ingredients): Cyclosilazanes, di-Me, Me Hydrogen, polymers with di-Me, Me hydrogen silazanes, and 2,4-TDI, parachlorobenzotrifluoride | Technical name (hazardous ingredients): parachlorobenzotrifluoride | yes |
| 14.3 | DOT: 8 (3) | DOT: 3 | yes |
| 14.3 | IMDG-Code: 8 (3) | IMDG-Code: 3 | yes |
| 14.3 | ICAO-TI: | ICAO-TI: | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|--|-----------------|
| | 8 (3) | 3 | |
| 14.4 | DOT: II | DOT: III | yes |
| 14.4 | IMDG-Code: II | IMDG-Code: III | yes |
| 14.4 | ICAO-TI: II | ICAO-TI: III | yes |
| 14.7 | Particulars in the shipper's declaration: UN2920, Corrosive liquid, flammable, n.o.s., (contains: Cyclosilazanes, di-Me, Me Hydrogen, polymers with di-Me, Me hydrogen silazanes, and 2,4-TDI, parachlorobenzotrifluoride), 8 (3), II, environmentally hazardous | Particulars in the shipper's declaration: UN1993, Flammable liquid, n.o.s., (contains: parachlorobenzotrifluoride), 3, III, environmentally hazardous | yes |
| 14.7 | Danger label(s): 8+3, fish and tree | Danger label(s): 3, fish and tree | yes |
| 14.7 | | Danger label(s): change in the listing (table) | yes |
| 14.7 | Special provisions (SP): B2, IB2, T11, TP2, TP27 | Special provisions (SP): B1, B52, IB3, T4, TP1, TP29 | yes |
| 14.7 | ERG No: 132 | ERG No: 128 | yes |
| 14.7 | Danger label(s): 8+3, fish and tree | Danger label(s): 3, fish and tree | yes |
| 14.7 | | Danger label(s): change in the listing (table) | yes |
| 14.7 | Special provisions (SP): 274 | Special provisions (SP): 223, 274, 955 | yes |
| 14.7 | Excepted quantities (EQ): E2 | Excepted quantities (EQ): E1 | yes |
| 14.7 | Limited quantities (LQ): 1 L | Limited quantities (LQ): 5 L | yes |
| 14.7 | EmS: F-E, S-C | EmS: F-E, <u>S-E</u> | yes |
| 14.7 | Stowage category: C | Stowage category: A | yes |
| 14.7 | Danger label(s): 8+3 | Danger label(s): 3 | yes |
| 14.7 | | Danger label(s): change in the listing (table) | yes |
| 14.7 | | Special provisions (SP): A3 | yes |
| 14.7 | Excepted quantities (EQ): E2 | Excepted quantities (EQ): E1 | yes |
| 14.7 | Limited quantities (LQ): 0,5 L | Limited quantities (LQ): 10 L | yes |
| 15.1 | | Cleaning Product Right to Know Act Substance List | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---------------------------|--|-----------------|
| | | (CA-RTK): change in the listing (table) | |
| 15.1 | | Proposition 65 List of chemicals: change in the listing (table) | yes |
| 15.1 | | National inventories: change in the listing (table) | yes |
| 15.1 | | Additional information: The contained substances are listed in the following national inventories: DSL/NDSL (Canada) | yes |
| 16 | | Abbreviations and acronyms: change in the listing (table) | yes |
| 16 | | List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table) | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|---------------|--|
| 49 CFR US DOT | 49 CFR U.S. Department of Transportation |
| Acute Tox. | Acute toxicity |
| Asp. Tox. | Aspiration hazard |
| ATE | Acute Toxicity Estimate |
| Cal ARB | California Air Resources Board |
| Carc. | Carcinogenicity |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| DOT | Department of Transportation (USA) |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| ED | Endocrine disruptor |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| EPA | Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment |
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| ERG No | Emergency Response Guidebook - Number |
| Eye Dam. | Seriously damaging to the eye |



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| Abbr. | Descriptions of used abbreviations |
|----------------|---|
| Eye Irrit. | Irritant to the eye |
| Flam. Liq. | Flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| HS | Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation) |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| LD50 | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval |
| NLP | No-Longer Polymer |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition |
| OSHA | Occupational Safety and Health Administration (United States) |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| RTECS | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| Skin Sens. | Skin sensitization |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).



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List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|---|
| H226 | Flammable liquid and vapor. |
| H227 | Combustible liquid. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H351 | Suspected of causing cancer. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.