



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name **Adam's Graphene Shampoo**  
ADP427-01

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

Relevant identified uses Vehicle wash & coat  
Vehicle wash / shampoo  
Professional use  
Industrial use

HS code 3402.39.90

#### 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.2	skin corrosion/irritation	Skin Irrit. 2	H315
A.3	serious eye damage/eye irritation	Eye Dam. 1	H318
A.6	carcinogenicity	Carc. 2	H351

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

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

- Signal word danger

- Pictograms

GHS05, GHS08





# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

### - Hazard statements

H315 Causes skin irritation.  
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.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 If on skin: Wash with plenty of water.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a poison center/doctor.  
P321 Specific treatment (see on this label).  
P362 Take off contaminated clothing and wash before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### - Hazardous ingredients for labelling

parachlorobenzotrifluoride, Dimethyldodecylamine-N-oxide, D-Glucopyranose, oligomers, decyl octyl glycosides, lauryl glucoside

## 2.3 Other hazards

### Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .

### Endocrine disrupting properties

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

## 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
sodium laureth sulfate	CAS No 68585-34-2 68891-38-3	10 - < 30	Acute Tox. 4 / H312 Skin Irrit. 2 / H315 Eye Irrit. 2B / H320
cocamidopropylhydroxysultaine	CAS No 68139-30-0	1 - < 5	Eye Irrit. 2A / H319
Dimethyldodecylamine-N-oxide	CAS No 1643-20-5	1 - < 5	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318
D-Glucopyranose, oligomers, decyl octyl glycosides	CAS No 68515-73-1	1 - < 5	Skin Irrit. 2 / H315 Eye Dam. 1 / H318
lauryl glucoside	CAS No 110615-47-9	1 - < 5	Skin Irrit. 2 / H315 Eye Dam. 1 / H318
parachlorobenzotrifluoride	CAS No 98-56-6	0.1 - < 1	Skin Sens. 1B / H317 Carc. 2 / H351



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

### Hazardous ingredients acc. to GHS

Name of substance	Identifier	Wt%	Classification acc. to GHS
			Flam. Liq. 3 / H226

### 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. In case of respiratory tract irritation, consult a physician. 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, Alcohol resistant foam, BC-powder, Carbon dioxide (CO<sub>2</sub>)

### 5.2 Special hazards arising from the substance or mixture

#### Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 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



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

### 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. Use only in well-ventilated areas.

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 feedingstuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

Control of the effects

Protect against external exposure, such as

frost

### 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
sodium laureth sulfate	68585-34-2 68891-38-3	DNEL	175 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
sodium laureth sulfate	68585-34-2 68891-38-3	DNEL	2,750 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
sodium laureth sulfate	68585-34-2 68891-38-3	DNEL	132 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

Relevant DNELs of components						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Dimethyldodecylamine-N-oxide	1643-20-5	DNEL	6.2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Dimethyldodecylamine-N-oxide	1643-20-5	DNEL	11 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	DNEL	420 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	DNEL	595,000 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
lauryl glucoside	110615-47-9	DNEL	420 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
lauryl glucoside	110615-47-9	DNEL	595,000 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
parachlorobenzotrifluoride	98-56-6	DNEL	1 mg/m <sup>3</sup>	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 <sup>2</sup>	human, dermal	worker (industry)	acute - local effects

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
sodium laureth sulfate	68585-34-2 68891-38-3	PNEC	0.24 mg/l	aquatic organisms	freshwater	short-term (single instance)
sodium laureth sulfate	68585-34-2 68891-38-3	PNEC	0.024 mg/l	aquatic organisms	marine water	short-term (single instance)
sodium laureth sulfate	68585-34-2 68891-38-3	PNEC	10 g/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
sodium laureth sulfate	68585-34-2 68891-38-3	PNEC	0.92 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
sodium laureth sulfate	68585-34-2 68891-38-3	PNEC	0.092 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
sodium laureth sulfate	68585-34-2 68891-38-3	PNEC	7.5 mg/kg	terrestrial organisms	soil	short-term (single instance)
Dimethyldodecylamine-N-oxide	1643-20-5	PNEC	0.034 mg/l	aquatic organisms	freshwater	short-term (single instance)
Dimethyldodecylamine-N-oxide	1643-20-5	PNEC	0.003 mg/l	aquatic organisms	marine water	short-term (single instance)
Dimethyldodecylamine-N-oxide	1643-20-5	PNEC	24 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Dimethyldodecylamine-N-oxide	1643-20-5	PNEC	5.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
ine-N-oxide						instance)
Dimethyldodecylamine-N-oxide	1643-20-5	PNEC	0.52 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Dimethyldodecylamine-N-oxide	1643-20-5	PNEC	1 mg/kg	terrestrial organisms	soil	short-term (single instance)
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	560 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	1.5 mg/kg	benthic organisms	sediment	short-term (single instance)
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	111 mg/kg	(top) predators	water	short-term (single instance)
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	0.27 mg/l	aquatic organisms	water	intermittent release
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	0.15 mg/kg	pelagic organisms	sediment	short-term (single instance)
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	0.18 mg/l	aquatic organisms	freshwater	short-term (single instance)
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	0.018 mg/l	aquatic organisms	marine water	short-term (single instance)
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	560 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	1.5 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	0.15 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	0.65 mg/kg	terrestrial organisms	soil	short-term (single instance)
lauryl glucoside	110615-47-9	PNEC	5,000 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
lauryl glucoside	110615-47-9	PNEC	1.5 mg/kg	benthic organisms	sediment	short-term (single instance)
lauryl glucoside	110615-47-9	PNEC	0.065 mg/kg	pelagic organisms	sediment	short-term (single instance)
lauryl glucoside	110615-47-9	PNEC	111 mg/kg	(top) predators	water	short-term (single instance)
lauryl glucoside	110615-47-9	PNEC	0.03 mg/l	aquatic organisms	water	intermittent release
lauryl glucoside	110615-47-9	PNEC	0.18 mg/l	aquatic organisms	freshwater	short-term (single



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
						instance)
lauryl glucoside	110615-47-9	PNEC	0.018 mg/l	aquatic organisms	marine water	short-term (single instance)
lauryl glucoside	110615-47-9	PNEC	5,000 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
lauryl glucoside	110615-47-9	PNEC	1.5 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
lauryl glucoside	110615-47-9	PNEC	0.065 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
lauryl glucoside	110615-47-9	PNEC	0.65 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.

##### 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.



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

### SECTION 9: Physical and chemical properties

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

##### Appearance

Physical state	liquid
Color	smoke
Particle	not relevant (liquid)
Odor	citrus

##### Other safety parameters

pH (value)	8 – 9 (25 °C)
Melting point/freezing point	not determined
Initial boiling point and boiling range	100 °C
Flash point	>100 °C at 101 kPa
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)
Vapor pressure	32 hPa at 25 °C
Density	1 – 1 g/cm <sup>3</sup> at 25 °C
Vapor density	this information is not available

##### Solubility(ies)

- Water solubility	miscible in any proportion
--------------------	----------------------------

##### Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none
	there is no additional information



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 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).

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

##### Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
sodium laureth sulfate	68585-34-2 68891-38-3	dermal	≥2,000 mg/kg
Dimethyldodecylamine-N-oxide	1643-20-5	oral	500 mg/kg

Acute toxicity of components					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
sodium laureth sulfate	68585-34-2 68891-38-3	oral	LD50	4,100 mg/kg	rat
sodium laureth sulfate	68585-34-2 68891-38-3	dermal	LD50	≥2,000 mg/kg	rat
cocamidopropylhydroxysultaine	68139-30-0	dermal	LD50	>2,000 mg/kg	rabbit
cocamidopropylhydroxysultaine	68139-30-0	oral	LD50	3,020 mg/kg	rat
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	oral	LD50	>2,000 mg/kg	rat
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	dermal	LD50	>2,000 mg/kg	rabbit



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

Acute toxicity of components					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
tyl glycosides					
lauryl glucoside	110615-47-9	oral	LD50	>5,000 mg/kg	rat
lauryl glucoside	110615-47-9	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

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitization

Contains parachlorobenzotrifluoride. May produce an allergic reaction.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Suspected of causing cancer.

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

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

Aquatic toxicity (acute) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
sodium laureth sulfate	68585-34-2 68891-38-3	LC50	7.1 mg/l	fish	96 h
sodium laureth sulfate	68585-34-2 68891-38-3	EC50	7.4 mg/l	aquatic invertebrates	48 h
sodium laureth sulfate	68585-34-2 68891-38-3	ErC50	28 mg/l	algae	72 h
cocamidopropylhydroxysultaine	68139-30-0	LC50	1.7 – 2 mg/l	algae	72 h
cocamidopropylhydroxysultaine	68139-30-0	LC50	1.7 – 2 mg/l	daphnia	48 h
cocamidopropylhydroxysultaine	68139-30-0	LC50	1.7 – 2 mg/l	fish	96 h
cocamidopropylhydroxysultaine	68139-30-0	EC50	11 mg/l	aquatic invertebrates	48 h
cocamidopropylhydroxysultaine	68139-30-0	ErC50	0.32 mg/l	algae	72 h
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	LC50	101 mg/l	fish	96 h
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	EC50	>100 mg/l	aquatic invertebrates	48 h
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	ErC50	27 mg/l	algae	72 h
lauryl glucoside	110615-47-9	LC50	3 mg/l	fish	96 h
lauryl glucoside	110615-47-9	EC50	7 mg/l	aquatic invertebrates	48 h
lauryl glucoside	110615-47-9	ErC50	12 mg/l	algae	72 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
sodium laureth sulfate	68585-34-2 68891-38-3	EC50	0.37 mg/l	aquatic invertebrates	21 d
sodium laureth sulfate	68585-34-2 68891-38-3	LC50	0.74 mg/l	aquatic invertebrates	21 d
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	LC50	3.2 mg/l	fish	28 d



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

Aquatic toxicity (chronic) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	EC50	>560 mg/l	microorganisms	6 h
lauryl glucoside	110615-47-9	LC50	3.2 mg/l	fish	28 d
parachlorobenzotrifluoride	98-56-6	LC50	6.5 mg/l	fish	24 h
parachlorobenzotrifluoride	98-56-6	EC50	242 mg/l	microorganisms	30 min

### 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

Does not contain a PBT-/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

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

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	not subject to transport regulations
14.2 UN proper shipping name	not relevant
14.3 Transport hazard class(es)	none
14.4 Packing group	not assigned
14.5 Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

### 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)

Not subject to transport regulations.

#### International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

## SECTION 15: Regulatory information

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

#### National regulations (United States)

#### Right to Know Hazardous Substance List

Cleaning Product Right to Know Act Substance List (CA-RTK)			
Name of substance	CAS No	Functionality	Authoritative Lists
water	7732-18-5	solvent	
sodium laureth sulfate	68585-34-2 68891-38-3	surfactant	
cocamidopropylhydroxysultaine	68139-30-0	surfactant	
Dimethyldodecylamine-N-oxide	1643-20-5	surfactant	
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	surfactant	
lauryl glucoside	110615-47-9	surfactant	
Poly(ethylene glycol-ran-propylene glycol) monobutyl ether	9038-95-3	surfactant	
N,N-dimethyltetradecylamine N-oxide	3332-27-2	surfactant	
polyethylene oxide lauryl ether	9002-92-0	surfactant	
Glycerine	56-81-5	humectant	
sodium chloride	7647-14-5	viscosity modifier	
parachlorobenzotrifluoride	98-56-6	solvents	
isopropyl myristate	110-27-0		
Alcohols, C11-15- secondary, ethoxylated	84133-50-6	surfactant	
polyurea silazane	2649792-57-2	refractory resin	
octamethylcyclotetrasiloxane	556-67-2	solvents	Canada PBiTs CECBP - Priority Chemicals EC PBTs
Lime oil	68917-71-5	fragrance	



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

Cleaning Product Right to Know Act Substance List (CA-RTK)			
Name of substance	CAS No	Functionality	Authoritative Lists
linalool	78-70-6	fragrance	EU Fragrance Allergens
Lemon oil	8008-56-8	fragrance	
Polyethylene glycol	25322-68-3	surfactant	

### 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
carbon black	1333-86-4	0.0008	airborne, unbound particles of respirable size	cancer
p-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene (para-Chlorobenzotrifluoride, PCBTF)	98-56-6	0.17		cancer
ethylene oxide	75-21-8	0.000044		cancer
ethylene oxide	75-21-8	0.000044		female
ethylene oxide	75-21-8	0.000044		developmental, male
1,4-dioxane	123-91-1	0.00011		cancer

### VOC content

- Regulated Volatile Organic Compounds (VOC-EPA) 0.092 %
- Regulated Volatile Organic Compounds (VOC-Cal ARB) 0.092 %

### 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	1	material that must be preheated 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	-	

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



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

### 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	1	material that must be preheated 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
EU	REACH Reg.	not all ingredients are listed
CA	DSL	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
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
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



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

### 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
11.1		Acute toxicity of components: change in the listing (table)	yes
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table)	yes
15.1		Proposition 65 List of chemicals: change in the listing (table)	yes
15.1	Regulated Volatile Organic Compounds (VOC-EPA): 0.14 %	Regulated Volatile Organic Compounds (VOC-EPA): 0.092 %	yes
15.1	Regulated Volatile Organic Compounds (VOC-Cal ARB): 0.14 %	Regulated Volatile Organic Compounds (VOC-Cal ARB): 0.092 %	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:	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

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation
Acute Tox.	Acute toxicity
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
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 %



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

Abbr.	Descriptions of used abbreviations
	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
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
Eye Dam.	Seriously damaging to the eye
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
IMDG	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).



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Graphene Shampoo

Version number: GHS 5.0  
Replaces version of: 2024-11-13 (GHS 4)

Revision: 2024-11-22

### 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).

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

Code	Text
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
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.