



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Adam's Wheel Coating - UV Reactive

Version number: GHS 2.0  
Replaces version of: 2019-09-23 (GHS 1)

Revision: 2019-12-06

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name

**Adam's Wheel Coating - UV Reactive**

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

Relevant identified uses

General use

Uses advised against

Do not use for products which come into direct contact with the skin.

#### 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	Category	Hazard class and category	Hazard statement
A.10	acute toxicity (oral)	4	Acute Tox. 4	H302
A.2	skin corrosion/irritation	1C	Skin Corr. 1C	H314
A.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
A.7	reproductive toxicity	2	Repr. 2	H361f
B.6	flammable liquid	3	Flam. Liq. 3	H226

For full text of abbreviations: see SECTION 16.

#### 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).

#### Additional information

Containing a PBT-/vPvB-substance in a concentration of  $\geq 0,1\%$ .

#### 2.2 Label elements

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

- Signal word            danger



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### - Pictograms

GHS02, GHS05,  
GHS07, GHS08



### - Hazard statements

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H361f	Suspected of damaging fertility.

### - 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.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P270	Do not eat, drink or smoke when using this product.
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.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
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

octamethylcyclotetrasiloxane, Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine, 3-aminopropyltriethoxysilane

## 2.3 Other hazards

Hazards not otherwise classified

Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and/or chronic).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)



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### 3.2 Mixtures

Description of the mixture

Hazardous ingredients acc. to GHS			
Name of substance	Identifier	Wt%	Classification acc. to GHS
Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine	CAS No 475645-84-2	40 - < 55	Acute Tox. 3 / H301 Skin Corr. 1C / H314 Eye Dam. 1 / H318 Flam. Liq. 2 / H225
octamethylcyclotetrasiloxane	CAS No 556-67-2	12 - < 20	Repr. 2 / H361f Flam. Liq. 3 / H226
decamethylcyclopentasiloxane	CAS No 541-02-6	3 - < 12	Flam. Liq. 4 / H227
distillates (petroleum) hydrotreated, light	CAS No 64742-47-8	3 - < 12	Asp. Tox. 1 / H304
3-aminopropyltriethoxysilane	CAS No 919-30-2	1 - < 3	Acute Tox. 4 / H302 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Flam. Liq. 4 / H227

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, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media

Water jet



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

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

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

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.



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### - 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.

### 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

### 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

This information is not available.

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
octamethylcyclotetrasiloxane	556-67-2	DNEL	73 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
octamethylcyclotetrasiloxane	556-67-2	DNEL	73 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
octamethylcyclotetrasiloxane	556-67-2	DNEL	73 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
octamethylcyclotetrasiloxane	556-67-2	DNEL	73 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
decamethylcyclopentasiloxane	541-02-6	DNEL	97.3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
decamethylcyclopentasiloxane	541-02-6	DNEL	97.3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
decamethylcyclopentasiloxane	541-02-6	DNEL	24.2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects



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### Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
decamethylcyclopentasiloxane	541-02-6	DNEL	24.2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
3-aminopropyltriethoxysilane	919-30-2	DNEL	59 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
3-aminopropyltriethoxysilane	919-30-2	DNEL	59 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
3-aminopropyltriethoxysilane	919-30-2	DNEL	8.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
3-aminopropyltriethoxysilane	919-30-2	DNEL	8.3 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects

### Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
octamethylcyclotetrasiloxane	556-67-2	PNEC	10 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	0.059 mg/kg	pelagic organisms	sediment	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	1.7 mg/kg	(top) predators	water	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	0.44 µg/l	aquatic organisms	freshwater	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	0.044 µg/l	aquatic organisms	marine water	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	0.3 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	0.59 mg/kg	benthic organisms	sediment	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	0.16 mg/kg	terrestrial organisms	soil	short-term (single instance)
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)



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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
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	1.27 mg/kg	terrestrial organisms	soil	short-term (single instance)
3-aminopropyltriethoxysilane	919-30-2	PNEC	0.33 mg/l	aquatic organisms	freshwater	short-term (single instance)
3-aminopropyltriethoxysilane	919-30-2	PNEC	0.033 mg/l	aquatic organisms	marine water	short-term (single instance)
3-aminopropyltriethoxysilane	919-30-2	PNEC	13 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
3-aminopropyltriethoxysilane	919-30-2	PNEC	1.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
3-aminopropyltriethoxysilane	919-30-2	PNEC	0.12 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
3-aminopropyltriethoxysilane	919-30-2	PNEC	0.05 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.



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### SECTION 9: Physical and chemical properties

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

##### Appearance

Physical state	liquid
Color	transparent - colorless
Odor	characteristic

##### Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	45 °C
Flash point	55 °C at 101.3 kPa 131 °F at 760 mmHg
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	132 Pa at 25 °C
Density	0.9587 g/ml
Vapor density	this information is not available
Solubility(ies)	not determined

##### Partition coefficient

- n-octanol/water (log KOW)	this information is not available
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Auto-ignition temperature	262 °C (auto-ignition temperature (liquids and gases))
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none





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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).

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

Acute toxicity

Harmful if swallowed.

- Acute toxicity estimate (ATE)

Oral 626.7 mg/kg

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine	475645-84-2	oral	300 mg/kg



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### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
3-aminopropyltriethoxysilane	919-30-2	oral	500 mg/kg

### Skin corrosion/irritation

Causes severe skin burns and eye damage.

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### Reproductive toxicity

Suspected of damaging fertility.

### 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

Very toxic to aquatic life with long lasting effects.

### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine	475645-84-2	LC50	57.1 mg/l	zebra fish	96 h
octamethylcyclotetrasiloxane	556-67-2	LC50	>22 µg/l	fish	96 h
octamethylcyclotetrasiloxane	556-67-2	EC50	>1,000 mg/l	aquatic invertebrates	96 h
decamethylcyclopentasiloxane	541-02-6	LC50	>16 µg/l	fish	96 h



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Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
decamethylcyclopentasiloxane	541-02-6	EC50	>2.9 µg/l	aquatic invertebrates	48 h
3-aminopropyltriethoxysilane	919-30-2	LC50	>934 mg/l	fish	96 h
3-aminopropyltriethoxysilane	919-30-2	EC50	331 mg/l	aquatic invertebrates	48 h
3-aminopropyltriethoxysilane	919-30-2	ErC50	>1,000 mg/l	algae	72 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
octamethylcyclotetrasiloxane	556-67-2	LC50	10 µg/l	fish	14 d
octamethylcyclotetrasiloxane	556-67-2	EC50	>500 mg/l	aquatic invertebrates	24 h
decamethylcyclopentasiloxane	541-02-6	LC50	>16 µg/l	fish	14 d
decamethylcyclopentasiloxane	541-02-6	EC50	>15 µg/l	aquatic invertebrates	21 d
3-aminopropyltriethoxysilane	919-30-2	EC50	43 mg/l	microorganisms	5.75 h

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

The substance fulfills the very bioaccumulative criterion.

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

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).

### 12.6 Other adverse effects

#### Endocrine disrupting potential

The mixture contains substance(s) with an endocrine disrupting potential.



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### 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

- |  |   |
|--|---|
| <b>14.1 UN number</b>  | 2920  |
| <b>14.2 UN proper shipping name</b>  | Corrosive liquid, flammable, n.o.s.   |
| Technical name (hazardous ingredients)   | Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine, 3-aminopropyltriethoxysilane |
| <b>14.3 Transport hazard class(es)</b>   |   |
| Class  | 8 (corrosive substances)  |
| Subsidiary risk(s)   | 3 (flammable liquid)  |
| <b>14.4 Packing group</b>  | II (substance presenting medium danger)   |
| <b>14.5 Environmental hazards</b>  | hazardous to the aquatic environment  |
| Environmentally hazardous substance (aquatic environment)                      | decamethylcyclopentasiloxane  |
| <b>14.6 Special precautions for user</b>                                       |   |
| There is no additional information.  |   |
| <b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b> |   |
| 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)

- |  |  |
|--|--|
| Index number                               | 2920   |
| Proper shipping name                       | Corrosive liquid, flammable, n.o.s.  |
| - 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, reaction products with 3-(triethoxysilyl)-1-propanamine, 3-aminopropyltriethoxysilane), 8 (3), II, environmentally hazardous |



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Class 8  
Subsidiary risk(s) 3  
Packing group II  
Danger label(s) 8+3, fish and tree



Environmental hazards YES (hazardous to the aquatic environment)  
Special provisions (SP) B2, IB2, T11, TP2, TP27  
ERG No 132

### International Maritime Dangerous Goods Code (IMDG)

UN number 2920  
Proper shipping name CORROSIVE LIQUID, FLAMMABLE, N.O.S.  
Class 8  
Subsidiary risk(s) 3  
Marine pollutant YES (hazardous to the aquatic environment)  
Packing group II  
Danger label(s) 8+3, fish and tree



Special provisions (SP) 274  
Excepted quantities (EQ) E2  
Limited quantities (LQ) 1 L  
EmS F-E, S-C  
Stowage category C

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

UN number 2920  
Proper shipping name Corrosive liquid, flammable, n.o.s.  
Class 8  
Subsidiary risk(s) 3  
Environmental hazards YES (hazardous to the aquatic environment)  
Packing group II  
Danger label(s) 8+3



Excepted quantities (EQ) E2  
Limited quantities (LQ) 0,5 L



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### SECTION 15: Regulatory information

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

##### National regulations (United States)

##### Toxic Substance Control Act (TSCA)

all ingredients are listed

##### 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
Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine	475645-84-2	refractory resin	
octamethylcyclotetrasiloxane	556-67-2	solvents	Canada PBiTs CECBP - Priority Chemicals EC PBTs
decamethylcyclopentasiloxane	541-02-6	solvents	Canada PBiTs CECBP - Priority Chemicals EC PBTs
distillates (petroleum) hydrotreated, light	64742-47-8	solvents	
fluorine modified silicone fluid	115361-68-7	shine agent	
polydimethylsiloxane	63148-62-9	shine agent	
trimethylsiloxysilicate	68988-56-7	resin	
polytrimethylhydrosilylsiloxane	68988-56-7	shine agent	
3-aminopropyltriethoxysilane	919-30-2	shine agent	
tetra(trimethylsiloxy)silane	3555-47-3	shine agent	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



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- 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

none of the ingredients are listed

### 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	-	

Chronic: chronic hazard  
Flammability: flammability hazard  
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		



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### 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

#### Legend

DSL Domestic Substances List (DSL)  
NDSL Non-domestic Substances List (NDSL)  
REACH Reg. REACH registered substances  
TSCA Toxic Substance Control Act

### 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)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
3.2		Hazardous ingredients acc. to GHS: change in the listing (table)	yes
9.1	Auto-ignition temperature: 215 °C (auto-ignition temperature (liquids and gases))	Auto-ignition temperature: 262 °C (auto-ignition temperature (liquids and gases))	yes
9.1	Temperature class (USA, acc. to NEC 500): T3 (maximum permissible surface temperature on the equipment: 200 °C)	Temperature class (USA, acc. to NEC 500): T2B (maximum permissible surface temperature on the equipment: 260 °C)	yes
14.1	UN number: 2924	UN number: 2920	yes
14.2	UN proper shipping name: Flammable liquid, corrosive, n.o.s.	UN proper shipping name: Corrosive liquid, flammable, n.o.s.	yes
14.2		Technical name (hazardous ingredients): Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine, 3-aminopropyltriethoxysilane	yes
14.3	Class: 3 (flammable liquids)	Class: 8 (corrosive substances)	yes
14.3	Subsidiary risk(s): 8 (corrosive effects)	Subsidiary risk(s): 3 (flammable liquid)	yes
14.4	Packing group: III (substance presenting low danger)	Packing group: II (substance presenting medium danger)	yes
14.5	Environmentally hazardous substance (aquatic environment): octamethylcyclotetrasiloxane	Environmentally hazardous substance (aquatic environment): decamethylcyclopentasiloxane	yes
14.7	Index number: 2924	Index number: 2920	yes





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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.7	Proper shipping name: Flammable liquid, corrosive, n.o.s.	Proper shipping name: Corrosive liquid, flammable, n.o.s.	yes
14.7	Particulars in the shipper's declaration: UN2924, Flammable liquid, corrosive, n.o.s., 3 (8), III, environmentally hazardous	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, reaction products with 3-(triethoxysilyl)-1-propanamine, 3-aminopropyltriethoxysilane), 8 (3), II, environmentally hazardous	yes
14.7	Class: 3	Class: 8	yes
14.7	Subsidiary risk(s): 8	Subsidiary risk(s): 3	yes
14.7	Packing group: III	Packing group: II	yes
14.7	Danger label(s): 3+8, fish and tree	Danger label(s): 8+3, fish and tree	yes
14.7	Special provisions (SP): B1, IB3, T7, TP1, TP28	Special provisions (SP): B2, IB2, T11, TP2, TP27	yes
14.7	UN number: 2924	UN number: 2920	yes
14.7	Proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.	Proper shipping name: CORROSIVE LIQUID, FLAMMABLE, N.O.S.	yes
14.7	Class: 3	Class: 8	yes
14.7	Subsidiary risk(s): 8	Subsidiary risk(s): 3	yes
14.7	Packing group: III	Packing group: II	yes
14.7	Danger label(s): 3+8, fish and tree	Danger label(s): 8+3, fish and tree	yes
14.7	Special provisions (SP): 223, 274	Special provisions (SP): 274	yes
14.7	Excepted quantities (EQ): E1	Excepted quantities (EQ): E2	yes
14.7	Limited quantities (LQ): 5 L	Limited quantities (LQ): 1 L	yes
14.7	Stowage category: A	Stowage category: C	yes
14.7	UN number: 2924	UN number: 2920	yes
14.7	Proper shipping name: Flammable liquid, corrosive, n.o.s.	Proper shipping name: Corrosive liquid, flammable, n.o.s.	yes
14.7	Class: 3	Class: 8	yes
14.7	Subsidiary risk(s): 8	Subsidiary risk(s): 3	yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.7	Packing group: III	Packing group: II	yes
14.7	Danger label(s): 3+8	Danger label(s): 8+3	yes
14.7	Special provisions (SP): A3		yes
14.7	Excepted quantities (EQ): E1	Excepted quantities (EQ): E2	yes
14.7	Limited quantities (LQ): 1 L	Limited quantities (LQ): 0,5 L	yes
15.1	New Jersey Worker and Community Right to Know Act: none of the ingredients are listed		yes
15.1		Right to Know Hazardous Substance List	yes
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK)	yes
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table)	yes
15.1		Toxic or Hazardous Substance List (MA-TURA): none of the ingredients are listed	yes
15.1		Hazardous Substances List (MN-ERTK): none of the ingredients are listed	yes
15.1		Hazardous Substance List (NJ-RTK): none of the ingredients are listed	yes
15.1		Hazardous Substance List (Chapter 323) (PA-RTK): none of the ingredients are listed	yes
15.1		Hazardous Substance List (RI-RTK): none of the ingredients are listed	yes
15.1		National inventories: change in the listing (table)	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
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
Cal ARB	California Air Resources Board
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)



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Abbr.	Descriptions of used abbreviations
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
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
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
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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
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
Repr.	Reproductive toxicity
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
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 chapter 2 and 3)

Code	Text
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H227	Combustible liquid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H361f	Suspected of damaging fertility.

### Disclaimer

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