

Material: 502 GP

AP-502 GP TRANSPARENT S1 SANITARY

Version: 2.5 (US)

Date of print: 07/15/2020

Date of last alteration: 01/23/2020

## 1. Product and company identification

### 1.1 Identification of the substance or preparation:

Commercial product name: **AP-502 C**

Use of substance / preparation: Industrial.  
Sealants

### 1.2 Company/undertaking identification:

Manufacturer/distributor: Titan Distribution, LLC.  
Adhesion Products

Customer information: Titan Distribution, LLC.  
22290 Challenger Driver  
Elkhart, IN 46514  
USA  
InfoLine:  
Tel (574) 970-8425, Fax (574) 970-8428  
Hours of operation:  
Monday - Friday, 8 am to 5 pm (eastern standard time)  
Corporate website: www.titansc.com

Emergency telephone no. (24h): (800) 855-3924 (CHEMTEL, USA)

Transportation emergency:

This SDS was prepared by the Regulatory Affairs and Product Safety Department (RAPS) of Wacker Chemical Corporation.

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Classification (GHS):

Not a hazardous substance or mixture.

### 2.2 Label elements

Labelling (GHS):

No labeling according to GHS required.

### 2.3 Other hazards

The product hydrolyses under formation of ethanol (CAS-Nr. 64-17-5). Ethanol is classified concerning both physical and health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependent on the specific conditions.

## 3. Composition/information on ingredients

### 3.1 Chemical characterization (preparation)

Chemical characteristics

Polydimethylsiloxane and auxiliary+crosslinker

### 3.2 Information on ingredients:

Type	CAS No.	Substance	Content [wt. %]		Note
			Lower	Upper	
INHA	128446-60-6	3-Aminopropyl(methyl) silsesquioxanes, ethoxy-terminated		<3.0	

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**Type:** HYD - by-product upon hydrolysis, INHA - ingredient, NEBE - by-product, MONO - residual monomer, VERU - impurity, VUL - by-product upon vulcanization. \*\*\* **Note:** C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, NH - non-hazardous, R - reproductive toxin.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product. Specific chemical identities and/or exact percentage (concentration) of the composition may have been withheld as a trade secret.

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above  $\geq 0.1\%$ .

#### 4. First-aid measures

##### 4.1 General information:

Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

##### 4.2 After inhalation

No special treatment required. Inhalation is not applicable.

##### 4.3 After contact with the skin

For skin contact, immediately wipe away excess material. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water.

##### 4.4 After contact with the eyes

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

##### 4.5 After swallowing

For ingestion, if conscious, give several glasses of water but do not induce vomiting. If vomiting does occur, give additional fluids. Get medical attention immediately. Show label if possible.

#### 5. Fire-fighting measures

##### 5.1 Flammable properties:

Property:	Value:	Method:
Flash point .....	not applicable	
Boiling point / boiling range .....	not applicable	
Lower explosion limit (LEL) .....	not applicable	
Ignition temperature.....	> 400 °C (> 752 °F)	(-)

##### 5.2 Fire and explosion hazards:

Consider possible formation of explosive mixtures with air, for example in uncleaned containers.

##### 5.3 Recommended extinguishing media:

carbon dioxide , dry chemical or alcohol-resistant foam .

##### 5.4 Unsuitable extinguishing media:

sharp water jet

##### 5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Hazardous decomposition products: carbon dioxide , carbon monoxide , formaldehyde , silicon dioxide , nitrogen oxides and incompletely burnt hydrocarbons .

##### 5.6 Fire fighting procedures:

Cool endangered containers with water. Fire fighters should wear full protective clothing including a self-contained breathing apparatus.

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## 6. Accidental release measures

### 6.1 Precautions:

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. If material is released indicate risk of slipping. Do not walk through spilled material.

**HAZWOPER PPE Level:** D

### 6.2 Containment:

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

### 6.3 Methods for cleaning up

Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

### 6.4 Further information:

Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 7.

## 7. Handling and storage

### 7.1 Handling

#### Precautions for safe handling:

Ensure adequate ventilation. Must be syphoned off in situ. Keep away from incompatible substances in accordance with section 10. Observe information in section 8.

#### Precautions against fire and explosion:

Product may release ethanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

### 7.2 Storage

#### Conditions for storage rooms and vessels:

Observe local/state/federal regulations.

#### Advice for storage of incompatible materials:

Observe local/state/federal regulations.

#### Further information for storage:

Store in a dry and cool place. Protect against moisture. Store container in a well ventilated place.

## 8. Exposure controls and personal protection

### 8.1 Engineering controls

#### Ventilation:

Use only with adequate ventilation.

#### Local exhaust:

No special ventilation required.

### 8.2 Associate substances with specific control parameters such as limit values

#### Maximum airborne concentrations at the workplace:

CAS No.	Substance	Type	mg/m <sup>3</sup>	ppm	Dust fract.
64-17-5	Ethanol	OSHA PEL	1,900.0	1,000.0	

Re Ethanol (CAS no. 64-17-5): STEL is 1000 ppm; carcinogenicity: A3 (ACGIH).

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not applicable

### 8.3 Personal protection equipment (PPE)

**Respiratory protection:**

Respiratory protection is not normally required.

**Hand protection:**

Any liquid-tight rubber or vinyl gloves.

**Eye protection:**

Safety glasses with side shields or chemical safety goggles.

**Other protective clothing or equipment:**

Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

### 8.4 General hygiene and protection measures:

Do not get in eyes, on skin or on clothing. Do not breathe dust/vapor/mist/gas/aerosol. Do not eat, drink or smoke when handling. Wash thoroughly after handling.

## 9. Physical and chemical properties

### 9.1 Appearance

Physical state .....: liquid  
 Form .....: paste  
 Colour .....: colourless  
 Odour.....: characteristic

### 9.2 Safety parameters

Property:	Value:	Method:
Melting point / melting range .....	not applicable	
Boiling point / boiling range .....	not applicable	
Flash point .....	not applicable	
Ignition temperature.....	> 400 °C (> 752 °F)	(-)
Lower explosion limit (LEL) .....	not applicable	
Vapour pressure.....	not determined	
Density.....	1.03 g/cm <sup>3</sup> at 23 °C (73 °F)	(EN/ISO 1183)
Water solubility / miscibility.....	insoluble	
pH-Value.....	not applicable	
Viscosity (dynamic).....	not applicable	

## 10. Stability and reactivity

### 10.1 General information:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

### 10.2 Conditions to avoid

Moisture, heat, open flames, and other sources of ignition.

### 10.3 Materials to avoid

Reacts with water, basic substances and acids. The reaction takes place with the formation of ethanol.

### 10.4 Hazardous decomposition products

By hydrolysis: ethanol . Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

### 10.5 Further information:

Hazardous polymerization cannot occur.

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## 11. Toxicological information

### 11.1 Information on toxicological effects

#### 11.1.1 General information

Data derived for the product as a whole are of higher priority than data for single ingredients.

#### 11.1.2 Acute toxicity

##### Product details:

Route of exposure	Result/Effect	Species/Test system	Source
Oral	LD50: > 2000 mg/kg	Rat	Conclusion by analogy

#### 11.1.3 Skin corrosion/irritation

##### Assessment:

Based on the available data a clinically relevant skin irritation hazard is not expected. Temporary symptoms of an irritation cannot be excluded if the adhesive product is removed mechanically after contact.

##### Product details:

Result/Effect	Species/Test system	Source
not irritating	Rabbit	Conclusion by analogy

#### 11.1.4 Serious eye damage / eye irritation

##### Assessment:

Based on the available data a clinically relevant eye irritation hazard is not expected. Temporary symptoms of an irritation cannot be excluded if the adhesive product is removed mechanically after contact.

##### Product details:

Result/Effect	Species/Test system	Source
not irritating	Rabbit	Conclusion by analogy

#### 11.1.5 Respiratory or skin sensitization

##### Product details:

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	Guinea pig; Buehler Test	Conclusion by analogy OECD 406

#### 11.1.6 Germ cell mutagenicity

##### Assessment:

For this endpoint no toxicological test data is available for the whole product.

#### 11.1.7 Carcinogenicity

##### Assessment:

For this endpoint no toxicological test data is available for the whole product.

#### 11.1.8 Reproductive toxicity

##### Assessment:

For this endpoint no toxicological test data is available for the whole product.

#### 11.1.9 Specific target organ toxicity (single exposure)

##### Assessment:

For this endpoint no toxicological test data is available for the whole product.

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#### 11.1.10 Specific target organ toxicity (repeated exposure)

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

#### 11.1.11 Aspiration hazard

**Assessment:**

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

#### 11.1.12 Further toxicological information

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Data on substances:**

**Product of hydrolysis (Ethanol):**

Ethanol (64-17-5) is readily absorbed at all exposure routes. Ethanol may cause irritation of eyes and mucosa, trigger dysfunction of the central nervous system and cause nausea as well as dizziness. Chronic exposure to high amounts of ethanol may cause damage to liver and central nervous system.

## 12. Ecological information

### 12.1 Toxicity

**Assessment:**

The environmental hazard classification of this material is concluded by data available for the ingredients and the leachable amount of biocide in simulation tests in water.

**Product details:**

Result/Effect	Species/Test system	Source
LC50: > 10 - < 100 mg/l (calculated value)	minnow ( <i>Pimephales promelas</i> ) (96 h)	elution assay (CAS 13463-41-7)
EC50: > 100 mg/l (calculated value)	Daphnia magna (48 h)	elution assay (CAS 13463-41-7)
ErC50 (growth rate): > 100 mg/l (nominal)	static (water-accommodated fraction) <i>Pseudokirchneriella subcapitata</i> (72 h)	Conclusion by analogy
ErC50 (growth rate): > 10 - < 100 mg/l (calculated value)	<i>Navicula pelliculosa</i> (24 h)	elution assay (CAS 13463-41-7)
NOEC (growth rate): > 1 mg/l (calculated value)	<i>Navicula pelliculosa</i> (24 h)	elution assay (CAS 13463-41-7)
NOEC (early life stage test): > 1 mg/l (calculated value)	rainbow trout ( <i>Oncorhynchus mykiss</i> )	elution assay (CAS 13463-41-7)
NOEC (reproduction): > 1 mg/l (calculated value)	Daphnia magna	elution assay (CAS 13463-41-7)

**Data on substances:**

Data derived for the product as a whole are of higher priority than data for single ingredients.

**Zinc pyrithione:**

Result/Effect	Species/Test system	Source
LC50: 0.0026 mg/l	dynamic minnow ( <i>Pimephales promelas</i> ) (96 h)	ECHA EPA OPP 72-1
LC50: 0.4 mg/l	semistatic Sheepshead minnow ( <i>Cyprinodon variegatus</i> ) (96 h)	ECHA EPA OPP 72-3
EC50: 0.0082 mg/l	dynamic Daphnia magna (48 h)	ECHA EPA OPP 72-2

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EC50: 0.0063 mg/l	dynamic Mysid shrimp (96 h)	ECHA EPA OPP 72-3
IC50 (growth rate): 0.0054 mg/l	static Navicula pelliculosa (96 h)	ECHA EPA OPP 122-2
NOEC (growth rate): 0.0024 mg/l	static Navicula pelliculosa (120 h)	ECHA EPA OPP 122-2
IC50 (growth rate): 0.0013 mg/l	static Marine alga (skeleonema costatum) (96 h)	ECHA EPA OPP 122-2
NOEC (growth rate): 0.00046 mg/l	static Marine alga (skeleonema costatum) (120 h)	ECHA EPA OPP 122-2
EC50: 2.4 mg/l	static sludge (3 h)	ECHA OECD 209
NOEC (early life stage test): 0.00122 mg/l	dynamic minnow (Pimephales promelas) (28 d)	ECHA EPA OPP 72-4
NOEC (reproduction): 0.0027 mg/l	dynamic Daphnia magna (21 d)	ECHA EPA OPP 72-4
NOEC: 0.0023 mg/l	dynamic Mysid shrimp (28 d)	ECHA EPA OPP 72-4

## 12.2 Persistence and degradability

### Assessment:

Silicone content: biologically not degradable. Separation by sedimentation.

### Data on substances:

#### Product of hydrolysis (Ethanol):

Ethanol is readily biodegradable.

#### Zinc pyrithione:

#### Biodegradation:

Result	Test system/Method	Source
39 % / 28 d Not readily biodegradable.	CO2 formation	ECHA OECD 301B

#### Hydrolysis:

Result	Test system	Source
Half-life: 13 min Degradation by photolysis	pH 9	ECHA

## 12.3 Bioaccumulative potential

### Assessment:

Polymer component: Bioaccumulation is not expected to occur.

### Data on substances

#### Zinc pyrithione:

Result/Effect	Species/Test system	Source
Bioconcentration factor (BCF): < 50	carp (Cyprinus carpio) (56 d; 23 - 27 °C; 0.02 - 0.2 ng/l)	ECHA OECD 305C

## 12.4 Mobility in soil

### Assessment:

Silicone content: Insoluble in water.

## 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Other adverse effects

none known



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## 13. Disposal considerations

### 13.1 Product disposal

Recommendation:

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

### 13.2 Packaging disposal

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

## 14. Transport information

### 14.1 US DOT & CANADA TDG SURFACE

Valuation.....: Not regulated for transport

### 14.2 Transport by sea IMDG-Code

Valuation.....: Not regulated for transport

### 14.3 Air transport ICAO-TI/IATA-DGR

Valuation.....: Not regulated for transport

## 15. Regulatory information

### 15.1 U.S. Federal regulations

#### TSCA inventory status and TSCA information:

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

#### TSCA SNUR (Significant New Use Rule):

Final Rule. Restriction: Release to surface waters at 10 ppb or greater.

#### TSCA 12(b) Export Notification:

CAS No.	Chemical	Reporting required under TSCA
128446-60-6	3-Aminopropyl(methyl) silsesquioxanes, ethoxy-terminated	One time export notification under TSCA 5(a) (2) required.

#### CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

#### SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

#### SARA 311/312 Hazard Class:

This product does not present any SARA 311/312 hazards.

#### SARA 313 Chemicals:

This material does not contain any SARA 313 chemicals above de minimus levels.

#### HAPS (Hazardous Air Pollutants):

CAS No.	Chemical	Upper limit wt. %
67-56-1	Methanol	<=0.0081

### 15.2 U.S. State regulations

#### California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This material does not contain any chemicals known to the State of California to cause cancer.

California Proposition 65 Reproductive Toxins:



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67-56-1 Methanol

**Massachusetts Substance List:**

112945-52-5 Silica, amorphous, fumed

**New Jersey Right-to-Know Hazardous Substance List:**

112945-52-5 Silica, amorphous, fumed

78-10-4 Ethyl silicate

**Pennsylvania Right-to-Know Hazardous Substance List:**

112945-52-5 Silica, amorphous, fumed

**15.3 Details of international registration status**

Relevant information about individual substance inventories, where available, is given below.

Japan.....	: <b>ENCS</b> (Handbook of Existing and New Chemical Substances): This product is listed in, or complies with, the substance inventory.
New Zealand.....	: <b>NZIoC</b> (New Zealand Inventory of Chemicals): This product is not listed or in compliance with the substance inventory.
Australia.....	: <b>AICS</b> (Australian Inventory of Chemical Substances): This product is listed in, or complies with, the substance inventory.
Philippines.....	: <b>PICCS</b> (Philippine Inventory of Chemicals and Chemical Substances): This product is listed in, or complies with, the substance inventory.
United States of America (USA) .....	: <b>TSCA</b> (Toxic Substance Control Act Chemical Substance Inventory): All components of this product are listed as active or are in compliance with the substance inventory.
Taiwan .....	: <b>TCSI</b> (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.
European Economic Area (EEA) .....	: <b>REACH</b> (Regulation (EC) No 1907/2006): General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.
South Korea (Republic of Korea).....	: <b>AREC</b> (Act on Registration and Evaluation of Chemicals; "K-REACH"): General note: in case of registration obligations for substances or polymers imported into Korea or manufactured within Korea these are fulfilled by the supplier mentioned in section 1. The registration obligations for substances or polymers imported into Korea by customers or other downstream users must be fulfilled by the latter.

**16. Other information**

**16.1 Additional information:**

This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This SDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

Vertical lines in the left-hand margin indicate changes compared with the previous version.

WACKER restricts the use of its products inside the human body or in contact with bodily fluids and mucosa. For further details

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please review our Health Care Policy on [www.wacker.com](http://www.wacker.com). WACKER may cancel any delivery obligation(s) if the Health Care Policy is not observed.

**16.2 Glossary of Terms:**

- |   |  |
|---|--|
| ACGIH - American Conference of Governmental Industrial Hygienists | ppm - Parts per Million  |
| DOT - Department of Transportation                                | SARA - Superfund Amendments and Reauthorization Act                  |
| hPa - Hectopascals  | STEL - Short Term Exposure Limit                                     |
| mPa*s - Milli Pascal-Seconds                                      | TSCA - Toxic Substances Control Act                                  |
| OSHA - Occupational Safety and Health Administration              | TWA - Time Weighted Average  |
| PEL - Permissible Exposure Limit                                  | WHMIS - Canadian Workplace Hazardous Materials Identification System |

Flash point determination methods .....	Common name
ASTM D56 .....	Tagliabue (Tag) closed cup
ASTM D92, DIN 51376, ISO 2592.....	Cleveland open cup
ASTM D93, DIN 51758, ISO 2719.....	Pensky-Martens closed cup
ASTM D3278, DIN 55680, ISO 3679 .....	Setaflash or Rapid closed cup
DIN 51755.....	Abel-Pensky closed cup

**16.3 Conversion table:**

Pressure:..... : 1 hPa \* 0.75 = 1 mm Hg = 1 torr; 1 bar = 1000 hPa  
 Viscosity:..... : 1 mPa\*s = 1 centipoise (cP)