

**Material:** AP-102 GP Aluminum

Version: 1.1 (US)

Date of print: 04/16/2020

Date of last alteration: 01/27/2020

## 1. Product and company identification

### 1.1 Identification of the substance or preparation:

**Commercial product name:** AP-102 GP CA  
Industrial.  
Sealants

Use of substance / preparation

### 1.2 Company/undertaking identification:

Titan Distribution, LLC./Adhesion Products

Manufacturer/distributor:

Titan Distribution, LLC.  
22290 Challenger Drive  
Elkhart, Indiana 46514 USA

Customer information:

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](http://www.titansc.com)

**Emergency telephone no. (24h):** (574) 70-8425

**Transportation emergency:** (800) 55-3924 (ChemTel, USA)

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):**

Hazard class	Hazard category	Route of exposure
Short-term (acute) aquatic hazard	Category 3	

### 2.2 Label elements

**Labelling (GHS):**

Signal Word: Exempt

H-Code	Hazard Statements
H402	Harmful to aquatic life.

P-Code	Precautionary Statements
P501	Dispose of contents/container to waste disposal.

### 2.3 Other hazards

No data available.

## 3. Composition/information on ingredients

### 3.1 Chemical characterization (preparation)

Chemical characteristics

Polydimethylsiloxane and fillers and auxiliaries and acetoxysilane cross-linker

### 3.2 Information on ingredients:

Type	CAS No.	Substance	Content [wt. %]		Note
			Lower	Upper	
INHA	64742-46-7	Distillates, petroleum, hydrotreated middle	>5.0	<=10.0	
INHA	17689-77-9	Triacetoxo ethylsilane		<3.0	
VERU		Oligomeric ethyl and methyl acetoxysilanes		<2.0	



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INHA	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one		<0.05	
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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 occurs or if breathing becomes difficult. Remove contaminated clothing and shoes.

### 4.2 After inhalation

Material cannot be inhaled under normal conditions. Hydrolysis product(s): If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen.

### 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.

### 4.6 Advice for the physician

Treat symptomatically.

## 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	
Upper explosion limit (UEL).....	not applicable	
Ignition temperature.....	ca. 400 °C (752 °F)	(DIN 51794)

### 5.2 Fire and explosion hazards:

This material will burn with a lazy smoldering flame. This material does not present any unusual fire or explosion hazards.

### 5.3 Recommended extinguishing media:

AFFF alcohol compatible foam. Carbon dioxide. Dry chemical. Water - Use Fine Spray or Fog. Water may be used to cool tanks and structures adjacent to the fire.

### 5.4 Unsuitable extinguishing media:

None.

### 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 and incompletely burnt hydrocarbons .

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**5.6 Fire fighting procedures:**

Full turn-out gear and Self Contained Breathing Apparatus (SCBA) should be worn when fighting large fires.

**6. Accidental release measures**

**6.1 Precautions:**

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. 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 acetic acid. 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 with adequate ventilation.

**Local exhaust:**

No special ventilation required.

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

none known

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### 8.3 Personal protection equipment (PPE)

**Respiratory protection:**

Respiratory protection is not normally required. A NIOSH approved air purifying respirator equipped with universal multi-contaminant, multi-gas/vapor cartridges and at least P-99 solid/aerosol particulate filters is recommended if overexposure to dusts, mists, or vapors could occur.

**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:

Avoid contact with eyes, skin and clothing. Follow standard industrial hygiene practices when using this material. When handling do not eat, drink, smoke or apply cosmetics. Wash thoroughly after handling.

## 9. Physical and chemical properties

### 9.1 Appearance

Physical state ..... : liquid  
 Form ..... : paste  
 Colour ..... : aluminum  
 Odour ..... : pungent

### 9.2 Safety parameters

<b>Property:</b>	<b>Value:</b>	<b>Method:</b>
Melting point / melting range .....	not applicable	
Boiling point / boiling range .....	not applicable	
Flash point .....	not applicable	
Ignition temperature.....	ca. 400 °C (752 °F)	(DIN 51794)
Lower explosion limit (LEL) .....	not applicable	
Upper explosion limit (UEL).....	not applicable	
Vapour pressure.....	not applicable	
Density.....	1.01 g/cm <sup>3</sup> at 23 °C (73 °F)	(ISO 1183-1 A)
Water solubility / miscibility.....	virtually insoluble	
pH-Value.....	not applicable	
Viscosity (dynamic).....	ca. 800000 mPa.s	

### 9.3 Further information

Solubility in water: Hydrolytic decomposition occurs. pH Value: Product displays acidic reaction with water.  
 Explosion limits for released acetic acid: 4 - 17%(V).

Odour limit..... : no data available  
 Thermal decomposition..... : 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 alcohols . The reaction takes place with the formation of acetic acid.

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#### 10.4 Hazardous decomposition products

By hydrolysis: acetic acid . 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.

### 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
dermal	LD50: > 2009 mg/kg	Rabbit	Conclusion by analogy

##### 11.1.3 Skin corrosion/irritation

###### Product details:

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

##### 11.1.4 Serious eye damage / eye irritation

###### Product details:

Result/Effect	Species/Test system	Source
not irritating	in vitro assay; Bovine eye / bovine cornea	Conclusion by analogy OECD 437
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; Maximisation Test	Conclusion by analogy

##### 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.

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

**Assessment:**

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

#### 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.

Other information: In contact with dampness product separates a small quantity of acetic acid (64-19-7) which irritates skin and mucous membranes.

**Data on substances:**

**aliphatic and naphthalene hydrocarbons:**

According to literature aliphatic hydrocarbons are slightly irritating to the skin and mucuous membranes and have a skin drying and narcotic effect. If the lungs are directly affected (e.g. by aspiration), inflammation of the lungs may occur.

## 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	rainbow trout ( <i>Oncorhynchus mykiss</i> ) (96 h)	Expert judgement
EC50: > 10 - < 100 mg/l	<i>Daphnia magna</i> (48 h)	Expert judgement
ErC50 (growth rate): > 10 - < 100 mg/l	<i>Navicula pelliculosa</i> (24 h)	Expert judgement
NOEC (growth rate): > 1 mg/l	<i>Navicula pelliculosa</i> (24 h)	Expert judgement
NOEC (early life stage test): > 1 mg/l	rainbow trout ( <i>Oncorhynchus mykiss</i> )	Expert judgement
NOEC (reproduction): > 1 mg/l	<i>Daphnia magna</i>	Expert judgement

**Data on substances:**

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

**4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one:**

Result/Effect	Species/Test system	Source
LC50: 0.0027 mg/l (measured)	dynamic rainbow trout ( <i>Oncorhynchus mykiss</i> ) (96 h)	literature OECD 203
EC50: 0.0052 mg/l (measured)	dynamic <i>Daphnia magna</i> (48 h)	literature OECD 202
ErC50 (growth rate): 0.0016 mg/l (measured)	static <i>Navicula pelliculosa</i> (24 h)	literature OECD 201
NOEC (growth rate): 0.00034 mg/l (measured)	static <i>Navicula pelliculosa</i> (24 h)	literature OECD 201
NOEC (early life stage test): 0.00056 mg/l (measured)	rainbow trout ( <i>Oncorhynchus mykiss</i> ) (97 d)	literature OECD 210

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NOEC (reproduction): 0.00063 mg/l (measured)	dynamic Daphnia magna (21 d)	literature OECD 211
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**12.2 Persistence and degradability**

**Assessment:**

Silicone content: biologically not degradable. Separation by sedimentation. The product of hydrolysis (acetic acid) is readily biodegradable.

**Data on substances:**

**4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one:**

Not applicable.

**12.3 Bioaccumulative potential**

**Assessment:**

Polymer component: Bioaccumulation is not expected to occur.

**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

**12.7 Additional information**

In cross-linked state not soluble in water. Easily separable from water by filtration.

**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**

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### 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. This material or its component(s) is in compliance with TSCA under a Low Volume Exemption.

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

This material does not contain reportable amounts of any TSCA 12(b) listed chemicals.

**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 313 Chemicals:**

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

**HAPS (Hazardous Air Pollutants):**

This material does not contain any hazardous air pollutants.

### 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.

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

**Massachusetts Substance List:**

112945-52-5 Silica, amorphous, fumed

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

112945-52-5 Silica, amorphous, fumed

**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.

Australia.....	: <b>AICS</b> (Australian Inventory of Chemical Substances): This product is listed in, or complies with, the substance inventory.
China .....	: <b>IECSC</b> (Inventory of Existing Chemical Substances in China): 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.



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South Korea (Republic of Korea)..... : **AREC** (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.

Titan restricts the use of its products inside the human body or in contact with bodily fluids and mucosa.

### 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)