Safety Data Sheet

Material: 102 GP **AP-102 GP White**

Version: 2.3 (US) Date of print: 04/16/2020 Date of last alteration: 11/16/2019

1. Product and company identification

1.1 Identification of the substance or preparation: Commercial product name: AP-102 CW

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 Drive
Elkhart, Indiana 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): (574) 970-8425
Transportation emergency: (800) 255-3924 (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
P273	Avoid release to the environment.
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	Triacetoxy ethylsilane		<3.0	
VERU		Oligomeric ethyl and methyl acetoxysilanes		<2.0	

INHA	13463-67-7	Titanium dioxide		<2.0	C1
INHA	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	>=0.025	<0.05	

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.

Titanium dioxide: This component does not impact the product's hazard classification. Due to the product's physical properties, particulate inhalation exposure is not possible.

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 ≥ 0.1%.

4. First-aid measures

4.1 General information:

Get medical attention if irritation occurs or if breathing becomes difficult.

4.2 After inhalation

If inhaled, remove to fresh air.

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. Danger of aspiration.

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:

Hydrolyzes on contact with moisture releasing ignitable, corrosive vapors. Consider possible formation of explosive mixtures with air, for example in uncleaned containers.

5.3 Recommended extinguishing media:

water-spray , 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: acetic acid . Hazardous combustion products: carbon monoxide , carbon dioxide , silicon dioxide , formaldehyde , Various hydrocarbon fragments .

5.6 Fire fighting procedures:

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

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: C

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 only with adequate ventilation.

Local exhaust:
Local exhaust ventilation which meets the requirements of ANSI Z9.2 is recommended to control airborne contaminants at the point of use.

8.2 Associate substances with specific control parameters such as limit values

Maximum airborne concentrations at the workplace:

CAS No.	Substance	Type	mg/m³	ppm	Dust fract.
64-19-7	Acetic acid	OSHA PEL	25.0	10.0	
64-19-7	Acetic acid	ACGIH TWA		10.0	

Re Acetic acid (CAS-no. 64-19-7): STEL is 15 ppm (ACGIH).

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. If eye-irritating dusts or vapors are present, a full-face respirator should be worn.

Hand protection:
Protective gloves made of fluorinated rubber

Eye protection:
Safety glasses with side shields or chemical safety goggles.

Other protective clothing or equipment:
Recommendation: protective clothing to cover exposed areas of arms, legs and torso Provide eye bath and safety shower.

8.4 General hygiene and protection measures:

Avoid contact with eyes, skin and 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 .....: white
Odour.....: pungent

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	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/cm³ 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 . Reaction causes the formation of: acetic acid .

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.

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

Titanium dioxide (rutile) has been classified by IARC as carcinogen group 2B ("possibly carcinogenic to humans"). 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. 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.

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:

Harmful to aquatic organisms.

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)	rainbow trout (Oncorhynchus mykiss) (96 h)	elution assay (DCOIT)
EC50: > 10 - < 100 mg/l (calculated value)	Daphnia magna (48 h)	elution assay (DCOIT)
ErC50 (growth rate): > 10 - < 100 mg/l (calculated value)	Navicula pelliculosa (24 h)	elution assay (DCOIT)
NOEC (growth rate): > 1 mg/l (calculated value)	Navicula pelliculosa (24 h)	elution assay (DCOIT)
NOEC (early life stage test): > 1 mg/l (calculated value)	rainbow trout (Oncorhynchus mykiss)	elution assay (DCOIT)
NOEC (reproduction): > 1 mg/l (calculated value)	Daphnia magna	elution assay (DCOIT)

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 (Oncorhynchus mykiss) (96 h)	literature OECD 203
EC50: 0.0052 mg/l (measured)	dynamic Daphnia magna (48 h)	literature OECD 202
ErC50 (growth rate): 0.0016 mg/l (measured)	static Navicula pelliculosa (24 h)	literature OECD 201
NOEC (growth rate): 0.00034 mg/l (measured)	static Navicula pelliculosa (24 h)	literature OECD 201
NOEC (early life stage test): 0.00056 mg/l (measured)	rainbow trout (Oncorhynchus mykiss) (97 d)	literature OECD 210
NOEC (reproduction): 0.00063 mg/l (measured)	dynamic Daphnia magna (21 d)	literature OECD 211

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

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

CERCLA Regulated Chemicals:

CAS No.	Chemical	RQ	Upper limit wt. %
1345-16-0	Cobalt aluminumoxide spinels		1.585
68186-90-3	C.I. Pigment Brown 24		2.755
8007-18-9	C.I. Pigment Yellow 53		1.089

CERCLA Regulated Chemicals:
No RQ has been assigned.

SARA 302 EHS Chemicals:
This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:
Immediate (acute) health hazard.

SARA 313 Chemicals:

CAS No.	Chemical	Upper limit wt. %
1345-16-0	Cobalt aluminumoxide spinels	1.585
68186-90-3	C.I. Pigment Brown 24	2.755
8007-18-9	C.I. Pigment Yellow 53	1.089

SARA 313 information included on this SDS should be included in all SDSs that are copied from and distributed for this material.

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):

California Proposition 65 Carcinogens:

1317-80-2 Rutile Titanium Dioxide

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

Massachusetts Substance List:
1309-37-1 Iron oxide
112945-52-5 Silica, amorphous, fumed
1332-58-7 Kaolin
1333-86-4 Carbon black
13463-67-7 Titanium dioxide
12001-26-2 Mica
7727-43-7 Barium sulfate
1314-23-4 Zirconium dioxide

New Jersey Right-to-Know Hazardous Substance List:

1309-37-1	Iron oxide
112945-52-5	Silica, amorphous, fumed
1333-86-4	Carbon black
13463-67-7	Titanium dioxide
12001-26-2	Mica

Pennsylvania Right-to-Know Hazardous Substance List:

1309-37-1	Iron oxide
112945-52-5	Silica, amorphous, fumed
1332-58-7	Kaolin
1333-86-4	Carbon black
13463-67-7	Titanium dioxide
1317-80-2	Rutile Titanium Dioxide
12001-26-2	Mica
7727-43-7	Barium sulfate

15.3 Details of international registration status

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

Australia ..... :	**AICS** (Australian Inventory of Chemical Substances): This product is listed in, or complies with, the substance inventory.
China ..... :	**IECSC** (Inventory of Existing Chemical Substances in China): This product is listed in, or complies with, the substance inventory.
Philippines ..... :	**PICCS** (Philippine Inventory of Chemicals and Chemical Substances): This product is listed in, or complies with, the substance inventory.
United States of America (USA) ..... :	**TSCA** (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 ..... :	**TCSI** (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) ..... :	**REACH** (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) ..... :	**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.

WACKER restricts the use of its products inside the human body or in contact with bodily fluids and mucosa. For further details please review our Health Care Policy on 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
DOT - Department of Transportation
hPa - Hectopascals
mPa*s - Milli Pascal-Seconds
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit
ppm - Parts per Million
SARA - Superfund Amendments and Reauthorization Act
STEL - Short Term Exposure Limit
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
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)