

# SDS SAFETY DATA SHEET



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AP-300 & 305 (Part A)  
Modified Epoxy Adhesive

Issue Date:4/24/2015  
SDS ID:AP-300/AP-305

## Section 1 IDENTIFICATION

**Product Name: AP-300 & AP-305 Modified Epoxy Adhesives**

**Product identifier:**

Adhesion Products: AP-300 & AP-305 (Part A)

**Product Form:**

Mixture

**Product Use**

Transportation, Industrial and Commercial Structural Adhesive

**Company Information**

Titan  
22290 Challenger Drive  
Elkhart, IN 46514

Emergency Telephone Number  
**1-800-255-3924**

## Section 2 HAZARD IDENTIFICATION

**Classification in accordance with 29 CFR 1910.1200.**

Acute Toxicity (Oral), Category 4 (68% unknown)  
Acute Toxicity (Dermal), Category 4 (94% unknown)  
Skin Corrosion / Irritation, Category 2  
Eye Damage / Irritation, Category 1  
Toxic to reproduction, Category 2  
Specific Target Organ Toxicity - Repeated Exposure, Category 1 (kidneys and liver)  
Hazardous to the Aquatic Environment - Acute Hazard, Category 3  
Hazardous to the Aquatic Environment - Chronic Hazard, Category 3

**GHS LABEL ELEMENTS**

**Symbol(s)**



**Signal Word**

DANGER

**Hazard Statement(s)**

Harmful if swallowed.  
Harmful in contact with skin  
Causes severe skin burns and eye damage  
Suspected of damaging fertility or the unborn child  
May cause damage to kidneys and liver through prolonged or repeated exposure.  
Harmful to aquatic life with long lasting effects

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## Precautionary Statement(s)

### Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or mist. Wear protective gloves/clothing and eye/face protection. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

### Response

IF exposed or concerned: Get medical advice/attention. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

### Storage

Store locked up.

### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

## Section 3 COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component	Percent
471-34-1	Carbonic acid, calcium salt (1:1)	20-25
68410-23-1	Fatty acids, C18-unsaturated, dimers, reaction products with Polyethylenepolyamines	8-10
90-72-2	2,4,6-Tri(dimethylaminomethyl)phenol	3-7
1760-24-3	N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine	1-5
13463-67-7	Titanium dioxide	0.1-1

## Section 4 FIRST-AID MEASURES

### Description of Necessary Measures

#### Inhalation

Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

#### Skin Contact

Wash with plenty of soap and water. Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.

#### Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

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## Ingestion

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

## Most Important Symptoms/Effects

### Acute

harmful if swallowed, harmful on contact with the skin, skin irritation and burns, eye burns, ear damage

### Delayed

kidney damage, liver damage, reproductive effects

## Indication of Immediate Medical Attention and Special Treatment Needed, If Needed

Treat symptomatically and supportively.

## Section 5 FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use carbon dioxide, regular dry chemical, regular foam or water.

### Unsuitable Extinguishing Media

None known.

### Special Hazards Arising from the Chemical

#### Hazardous Combustion Products

**Combustion:** Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons, oxides of nitrogen, oxides of silicon.

### Special Protective Equipment and Precautions for Firefighters

May burn, but does not ignite readily.

### Fire Fighting Measures

Move material from fire area if it can be done without risk. Cool containers with water. Avoid inhalation of vapors or combustion by-products. Use extinguishing agents appropriate for surrounding fire. Dike for later disposal. Stay upwind and keep out of low areas.

### Protective Equipment and Precautions for Firefighters

Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

## Section 6 ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Keep unnecessary people away, isolate hazard area and deny entry. Only personnel trained for the hazards of this material should perform clean up and disposal.

### Methods and Materials for Containment and Cleaning Up

Ventilate the area. Do not touch spilled material. Collect spilled material in appropriate container for disposal. Avoid release to the environment

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## Section 7 HANDLING AND STORAGE

### Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood. Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing. Do not eat, drink, or smoke when using this product. Always wear recommended personal protective equipment. Wash thoroughly after handling.

### Conditions for Safe Storage, including any Incompatibilities

Store and handle in accordance with all current regulations and standards. Keep container tightly closed. Avoid contact with temperatures above 120 °F. Keep separated from incompatible substances.

**Incompatibilities:** strong acids, strong bases, strong oxidizing materials

## Section 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

#### Carbonic acid, calcium salt (1:1) (471-34-1)

NIOSH: 10 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable dust)

#### Titanium dioxide (13463-67-7)

ACGIH: 10 mg/m<sup>3</sup> TWA

OSHA: 15 mg/m<sup>3</sup> TWA (total dust)

Mexico 10 mg/m<sup>3</sup> TWA LMPE-PPT (as Ti)  
20 mg/m<sup>3</sup> STEL [LMPE-CT] (as Ti)

### Appropriate Engineering Controls

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

### Individual Protection Measures, such as Personal Protective Equipment

#### Eyes/Face Protection

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

#### Skin Protection

Wear appropriate chemical resistant clothing.

#### Glove Recommendations

Wear appropriate chemical resistant gloves.

#### Respiratory Protection

Use an approved respirator if exposure limits are exceeded or if irritation develops or persists.



**Section 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Solid	<b>Appearance:</b>	solid form
<b>Physical Form:</b>	solid	<b>Odor:</b>	Not available
<b>Odor Threshold:</b>	Not available	<b>pH:</b>	Not available
<b>Melting Point:</b>	Not available	<b>Boiling Point:</b>	Not available
<b>Flash Point:</b>	Not available	<b>Decomposition:</b>	Not available
<b>Evaporation Rate:</b>	Not available	<b>OSHA Flammability Class:</b>	Not available
<b>Vapor Pressure:</b>	Not available	<b>Vapor Density (air = 1):</b>	Not available
<b>Density:</b>	Not available	<b>Specific Gravity (water = 1):</b>	1.0 – 1.3
<b>Water Solubility:</b>	Not available	<b>Log KOW:</b>	Not available
<b>Coeff. Water/Oil Dist:</b>	Not available	<b>KOC:</b>	Not available
<b>Auto Ignition:</b>	Not available	<b>Viscosity:</b>	Not available
<b>VOC:</b>	Not available	<b>Volatility:</b>	Not available
<b>Molecular Formula:</b>	Not available		

**Section 10 STABILITY AND REACTIVITY**

**Reactivity**

No reactivity hazard is expected.

**Chemical Stability**

Stable at normal temperatures and pressure.

**Possibility of Hazardous Reactions**

Will not polymerize.

**Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

**Incompatible Materials**

strong acids, strong bases, strong oxidizing materials

**Hazardous Decomposition Products**

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons, oxides of nitrogen, oxides of silicon

**Hazardous Decomposition**

**Combustion:** Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons, oxides of nitrogen, oxides of silicon.

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## Section 11 TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

##### **Carbonic acid, calcium salt (1:1) (471-34-1)**

Oral LD50 Rat 6450 mg/kg

##### **2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)**

Oral LD50 Rat 1200 mg/kg; Dermal LD50 Rat 1280 mg/kg

##### **N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine (1760-24-3)**

Oral LD50 Rat 7460 µL/kg

##### **Titanium dioxide (13463-67-7)**

Oral LD50 Rat >10000 mg/kg

### Information on Likely Routes of Exposure

#### Inhalation

May cause respiratory tract irritation or burns.

#### Ingestion

May be harmful if swallowed. May cause gastrointestinal irritation, burns, nausea, vomiting, or diarrhea.

#### Skin Contact

May be harmful in contact with skin. May cause burns.

#### Eye Contact

May cause burns and eye damage.

#### Immediate Effects

respiratory tract burns, skin burns, eye burns

#### Delayed Effects

kidney damage, liver damage

#### Medical Conditions Aggravated by Exposure

skin disorders, eye disorders

#### Irritation/Corrosivity Data

respiratory tract burns skin burns eye burns

#### Respiratory Sensitization

No information available for the product.

#### Dermal Sensitization

No information available for the product.

#### Germ Cell Mutagenicity

No information available for the product.

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## Carcinogenicity

Results of a DuPont epidemiology study showed that employees who had been exposed to titanium dioxide pigments were at no greater risk of developing lung cancer than were employees who had not been exposed to titanium dioxide pigments. No pulmonary fibrosis was found in any of the employees and no associations were observed between titanium dioxide pigment exposure and chronic respiratory disease or lung abnormalities. Based on the results of this study, DuPont concluded that titanium dioxide pigment will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.

## Component Carcinogenicity

### Titanium dioxide (13463-67-7)

**ACGIH:** A4 - Not Classifiable as a Human Carcinogen

**IARC:** Monograph 93 [2010]; Monograph 47 [1989] (Group 2B (possibly carcinogenic to humans))

**DFG:** Category 3A (could be carcinogenic for man, inhalable fraction with the exception of ultra small particles)

**OSHA:** Present

## Reproductive Toxicity

May damage fertility or the unborn child

## Specific Target Organ Toxicity - Single Exposure

No target organs identified.

## Specific Target Organ Toxicity - Repeated Exposure

kidneys, liver

## Aspiration Hazard

No information available for the product.

<b>Section 12 ECOLOGICAL INFORMATION</b>
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## Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components.

## Persistence and Degradability

No information available for the product.

## Bioaccumulation

No information available for the product.

## Mobility

No information available for the product.

## Biodegradation

No information available for the product.

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## Section 13 DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose in accordance with all applicable federal, state/regional and local laws and regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D002.

### Disposal of Contaminated Packaging

Dispose of properly. Recycle if possible.

### Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

## Section 14 TRANSPORT INFORMATION

### US DOT Information

Not regulated as a hazardous material.

### TDG Information

Not regulated as dangerous goods.

## Section 15 REGULATORY INFORMATION

### U.S. Federal Regulations

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

### SARA 311/312 Hazardous Categories

Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No Reactive: No

### State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Titanium dioxide	13463-67-7	No	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.



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## Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
Carbonic acid, calcium salt (1:1)	471-34-1	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Fatty acids, C18-unsaturated, dimers, reaction products with Polyethylenepolyamines	68410-23-1	Yes	DSL	No	Yes	Yes	Yes	Yes	Yes	Yes
2,4,6-Tri(dimethylaminomethyl)phenol	90-72-2	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine	1760-24-3	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Titanium dioxide	13463-67-7	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

## Section 16 OTHER INFORMATION

### Summary of Changes

New SDS: 1.00

### NFPA Ratings: Health: 3 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

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## **Other Information**

The information contained herein is based on data considered accurate which has been obtained from other companies and organizations.

<b>END OF SDS DOCUMENT</b>
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