

SAFETY DATA SHEET, revised October 18, 2017

**A-300WH PVC Adhesive White****1. PRODUCT AND COMPANY INFORMATION**

Trade name	PVC Adhesive White
Product codes	ZGA-300WH, A300WH
Chemical family	Pigmented resin solution
Intended use	Adhesive for welding of PVC
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Company	Colorado Paint Company II, LLC (a Swarco Company) 4747 Holly Street Denver, CO 80216; U. S. A.
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Telephone	+1 303-388-9265
Web site	www.swarco.com/americas
Emergency (Chemtrec; 24 h)	1-800-424-9300 (U. S. A. and Canada)

**2. HAZARD IDENTIFICATION****Emergency Overview****OSHA Hazards**

Flammable Liquid, Target Organ Effect, Irritant.

**Target Organs**

Central nervous system, Liver, Kidney.

**GHS Classification**

Flammable liquids (Category 2)

Acute toxicity, Oral (Category 4)

Acute toxicity, Inhalation (Category 5)

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3)

**GHS Label elements, including precautionary statements**

Pictograms:

**Signal word:** Danger**Hazard statements**

H225 Highly flammable liquid and vapour.

H302 + H333 Harmful if swallowed or if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 + H336 May cause respiratory irritation, dizziness, and drowsiness.

**Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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**HMIS and NFPA Classification:**

	HMIS	NFPA Hazard
Health	2	2
Chronic health hazard	*	--
Flammability	3	3
Reactivity / Physical hazard	--	0
Physical hazard	3	--

**Potential Health Effects**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation. Vapours may cause drowsiness and dizziness.

**Skin:** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Ingestion:** May be harmful if swallowed.

**3. COMPOSITION**

Name	Synonym	CAS	EINECS	Index	Concentration
Tetrahydrofuran	THF, Oxolane	109-99-9	203-726-8	603-025-00-0	50-70%
Poly(vinyl chloride vinyl acetate)	Vinyl chloride vinyl acetate copolymer	9003-22-9	n/a	n/a	20-35%
Methyl Ethyl Ketone	Butanone-2	78-93-3	201-159-0	606-021-00-7	10-20%
Titanium Dioxide	Titanium (IV) oxide	13466-67-7	236-675-5	n/a	2-3%

**4. FIRST AID MEASURES**

**General advice**

Consult a physician. Show this Material Safety Data Sheet to the attending doctor.

**If inhaled**

Move person to fresh air. If not breathing, give artificial respiration. Obtain proper medical attention.

**If on skin**

Wash off with soap and water. Consult a physician if needed.

**In case of an eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes. Seek medical attention.

**If swallowed**

Do not induce vomiting. Rinse mouth with water. Seek immediate medical attention.

**Most important symptoms and effects, both acute and delayed**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**5. FIRE FIGHTING MEASURES**

**Suitable extinguishing media**

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide.

For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

**Special protective equipment for fire fighters**

Wear self-contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides (NO<sub>x</sub>), chlorinated compounds.

**Further information**

Use water spray to cool unopened containers.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

**A-300WH PVC Adhesive White**

Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate unnecessary personnel to safe areas. Beware of vapors accumulating to form explosive concentrations.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Contain spillage, and then collect with electrically protected equipment and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition – NO SMOKING. Take measures to prevent the build up of electrostatic charge.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature is 10-25 °C.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Occupational exposure limits**

Name	CAS	OSHA TLV <sup>(1)</sup>	ACGIH TLV <sup>(2)</sup>	NIOSH PEL <sup>(3)</sup>	OSHA STEL <sup>(4)</sup>	EU <sup>(5)</sup>
Methyl ethyl ketone	78-93-3	590	590	590	885	600
Upper Respiratory Tract irritation. Central Nervous System and Peripheral Nervous System impairment. Substance for which there is a Biological Exposure Index.						
Poly(vinyl chloride vinyl acetate)	900-22-9	n/a	n/a	n/a	n/a	n/a
No occupational exposure limits have been established. Per manufacturer, the resin is 'not hazardous and toxic chemical'.						
Tetrahydrofuran	109-99-9	590	147	735	735	150
Can be absorbed through skin. There are concerns that dermal absorption will lead to systemic toxicity. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhoea. Central Nervous System impairment. Upper Respiratory Tract irritation. Kidney damage. Confirmed animal carcinogen with unknown relevance to humans. The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histological type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.						
Titanium dioxide	13463-67-7	15	10	Fine particles: 2.4 Ultrafine particles: 0.3	n/a	4
The established limits are for respirable dust (total dust maximum is 15 mg/m <sup>3</sup> ) only and are meaningless for the paint product as delivered, but apply while sanding or abrading of dried coating. Lower Respiratory Tract irritation. Slight lung fibrosis (carcinogenic in rats). Health Effect: Nuisance particulate, accumulation in lungs. Not classifiable as a human carcinogen. No increase in risk for lung cancer (or any other specific cause of death) among titanium dioxide manufacturing workers.						

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(1) Occupational Safety and Health Administration (OSHA); Threshold Limit Value (8-hour time-weighted average) pursuant to (a) for general industry: 29 CFR 1910.1000 Table Z-1, (b) for construction industry: 29 CFR 1926.55 Appendix A, and (c) for maritime industry: 29 CFR 1915.1000 Table Z. (2) American Conference of Governmental Industrial Hygienists; Threshold Limit Value. (3) National Institute for Occupational Safety and Health; Recommended Exposure Limit. (4) OSHA Short Term Exposure Limit (STEL). (5) European Union exposure limit per Directive 98/24/EC, as amended or UK EH40 Occupational Exposure Limit.

**Ventilation**

Use only where adequate ventilation can be maintained. Use explosion-proof exhaust fans when the product is used in enclosed areas.

**Personal protective equipment**

**Respiratory protection**

A full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges are recommended as a backup to engineering controls.

**Hand protection**

Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good work hygiene practices. The selected protective gloves have to satisfy the specifications of the standard EN 374.

**Eye protection**

Safety glasses with side shields are required. Face shield are recommended. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Wear impervious, flame retardant antistatic protective clothing.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash your hands thoroughly. Never intentionally inhale the contents. Use only for the intended purpose.

**9. PHYSICAL PROPERTIES**

**Appearance**

Physical state    Liquid  
 Color            White  
 Odor             Strong, irritating, characteristic of tetrahydrofuran

**Safety data**

Boiling point     >60 °C (solvent data)  
 Freezing point   Not available  
 Flash point       >-13 °C (solvent data)  
 Upper explosion limit    3 vol% (solvent data)  
 Lower explosion limit    16 vol% (solvent data)  
 Solubility in water    Solvents are soluble  
 Vapor pressure    213.3 hPa at 25 °C (solvent data)  
 Density            0.8-1.1 g·cm<sup>-3</sup> at 25 °C  
 Viscosity         70-95 KU (Stormer, at 25 °C)  
 pH                 Not applicable

**10. STABILITY AND REACTIVITY DATA**

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

Vapours may form explosive mixture with air.

**Conditions to avoid**

Heat, flames, and sparks. Extremes of temperature and direct sunlight.

**Materials to avoid**

Bases, strong acids, oxidizing agents, reducing agents, phosphorous oxychloride.

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**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides (NO<sub>x</sub>).

**11. TOXICOLOGICAL DATA**

**Acute toxicity**

Name	NIOSH IDLH (mg/m <sup>3</sup> )	Oral LD <sub>50</sub> (mg/kg) rat	Inhalation LC <sub>50</sub> (rat)	Dermal LD <sub>50</sub> (mg/kg) rabbit
Methyl ethyl ketone	5900	2737	32000 (mouse) 38000 (mammal)	6480 (rabbit)
Poly(vinyl chloride vinyl acetate)	n/a	n/a	n/a	n/a
Tetrahydrofuran	5877	1650 (rat) 2300 (guinea pig)	61000 (3h) Drowsiness. Lungs Thorax or Respiration	>2000 (rat)
Titanium dioxide	5,000	>10,000	n/a	>10,000

**Prolonged Exposure**

Name	Skin corrosion / irritation	Serious eye damage / irritation	Respiratory or skin sensitization
Methyl ethyl ketone	Rabbit – skin irritation (24h)	No data available	No data available
Poly(vinyl chloride vinyl acetate)	No data available	No data available	No data available
Tetrahydrofuran	Rabbit – mild skin irritation (Draize test)	Rabbit – risk of serious damage to eyes (Draize test)	Mouse – did not cause sensitization on laboratory animals
Titanium dioxide	Human: Mild skin irritation (3h)	Rabbit: No eye irritation	Will not occur

**Germ cell mutagenicity**

Tetrahydrofuran	In vivo tests did not show mutagenic effects
Titanium dioxide	Genotoxicity in vitro – hamster – ovary: Micronucleus test. Genotoxicity in vitro – hamster – lungs: DNA inhibition. Genotoxicity in vitro – hamster – ovary: Sister Chromatoid exchange. Genotoxicity in vivo – mouse – intraperitoneal: Micronucleus test.
All other ingredients	No data available

**Carcinogenicity**

Methyl ethyl ketone	IARC: 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.
Poly(vinyl chloride vinyl acetate)	Mouse – Implant: Tumorigenic. Equivocal tumorigenic agent by RTECS criteria. Tumors at site or application. This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.
Tetrahydrofuran	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
Titanium dioxide	Rat – inhalation: Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration: Tumors. Rat – intramuscular: Tumorigenic: Neoplastic by RTECS criteria. Blood: Lymphomas including Hodgkin's disease. Tumors at site or application. IARC: 2B - Group 2B: Possibly carcinogenic to humans (Titanium dioxide).

**Reproductive toxicity**

Tetrahydrofuran	No toxicity to reproduction.
All other ingredients	No data available.

**Teratogenicity**

No data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

Methyl ethyl ketone	May cause drowsiness or dizziness.
Tetrahydrofuran	Inhalation - May cause respiratory irritation. May cause drowsiness or dizziness. Nervous system

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All other ingredients No data available.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

No data available.

**Aspiration hazard**

No data available

**Potential health effects**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation. Vapours may cause drowsiness and dizziness.

**Ingestion:** May be harmful if swallowed.

**Skin:** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties of this product (a mixture) have not been thoroughly investigated.

The following symptoms have been reported for overexposure to the ingredients: Central Nervous System depression, Cough, chest pain, difficulty in breathing, Gastrointestinal disturbance, narcosis.

**Synergistic effects**

No data available.

**12. ECOLOGICAL DATA**

**Toxicity**

Name	Fish LC <sub>50</sub> (mg/dm <sup>3</sup> /96 h)	Daphnia and other marine invertebrates EC <sub>50</sub> (mg/dm <sup>3</sup> /48 h)	Bacteria LC <sub>50</sub> (mg/dm <sup>3</sup> )
Methyl ethyl ketone	Mortality NOEC: 400 Cyprinodon variegatus (sheepshead minnow) 3,130 Pimephales promelas	LC50 >520 (mg/dm <sup>3</sup> /48 h) EC50 7,060 (mg/dm <sup>3</sup> /24 h)	n/a
Poly(vinyl chloride vinyl acetate)	No data available	No data available	No data available
Tetrahydrofuran	2,160 Pimephales promelas (fathead minnow)	n/a	Growth inhibition NOEC: 3,700 mg/dm <sup>3</sup> (Algae)
Titanium dioxide	>1,000 (other fish)	1,000	No data available.

**Persistence and degradability**

Tetrahydrofuran	Expected to be biodegradable
All other ingredients	No data available.

**Bioaccumulative potential**

No data available.

**Mobility in soil**

No data available.

**PBT and vPvB assessment**

No data available.

**Other adverse effects**

Data for the entire preparation (a mixture) is not available.

**13. DISPOSAL CONSIDERATIONS**

**Unused or spoiled product**

The user must determine if it meets applicable definitions of a hazardous waste per 40 CFR 261 and other regulations. Dispose according to the environmental laws. Contact a licensed professional waste disposal service to arrange for appropriate removal. Burn the material in a chemical incinerator equipped with an afterburner and scrubber.

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**Container**

Empty packaging may contain product residue and should not be reused. Dispose as of unused product.

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**14. TRANSPORTATION INFORMATION**

Information provided for guidance purpose only and not meant to be inclusive. Packaging suitability and compliance with regulations must be reviewed prior to shipment.

Quantities smaller than 2.0 litres may be shipped as CONSUMER COMMODITY (per 49 CFR 171.8). Bulk quantities are regulated as follows:

**DOT (U. S. A.); IMDG; IATA**

UN1133; Class 2; Packing Group II

**Proper shipping name**

Adhesive, containing a flammable liquid.

**Other information**

Not considered marine pollutant or poison inhalation hazard.

**DOT reportable ingredients:**

Proper Shipping Name	Amount	Reportable quantity
Methyl ethyl ketone	10-20%	2,267 kg (5,000 lb)
Tetrahydrofuran	40-55%	454 kg (1,000lb)

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**15. REGULATORY INFORMATION****OSHA Hazards**

Flammable Liquid, Target Organ Effect, Harmful by ingestion, Irritant, Carcinogen.

**TSCA and DSL**

Listed or exempt

**SARA 302**

To the best of our knowledge, no chemicals in this product are subject to the reporting requirements of SARA Title III, Section 302 (40 CFR 355.30)

**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard, Chronic Health Hazard.

**SARA 313**

To the best of our knowledge, no chemicals in this product are subject to the reporting requirements of SARA Title III, Section 313

**California Proposition 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Volatile Organic Compounds**

Below 700 g/l

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**16. ADDITIONAL INFORMATION**

This safety data sheet complies with 29 CFR 1910.1200 and with EC 1907/2006, as amended. Paper copies of this publication may be made by the users for internal purposes only.

Last modified: October 18, 2017.

**Disclaimer**

All information and data appearing on this Safety Data Sheet are provided in good faith and are believed to be reliable and accurate to the best of our knowledge at the date of publication. Although certain hazards are listed herein, there is no guarantee that these are only risks. None of the provided information is to be considered a warranty or quality specification or all-inclusive and is given only as guidance. It is the user's responsibility to determine the safety of use, handling, storage, transportation, disposal, and suitability for the intended utilisation of the product. Unless otherwise specified, the data provided herein is valid only for the described material and may be not applicable for the product used in combination with any other materials or processes. Colorado Paint Company / Swarco shall not be liable for any damage resulting from handling, contact, use, or inability to use of this product. No guarantee, expressed or implied, is made by Colorado Paint Company / Swarco and the user assumes all risk and responsibility.