

COLORADO PAINT COMPANY

SAFETY DATA SHEET, revised Dec 1, 2014

A-300WH PVC Adhesive White

Page 1 of 7

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

Company Colorado Paint (a Swarco Company)

4747 Holly Street

Denver, CO 80216; U. S. A.

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.

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.

Eves: 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) resin	Modified PVC polymer	Proprietary mixture	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_x), chlorinated compounds.

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

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 ⁽¹⁾	ACGIH TLV ⁽²⁾	NIOSH PEL(3)	OSHA STEL ⁽⁴⁾	EU ⁽⁵⁾
Methyl ethyl ketone	78-93-3	590	590	590	885	600
				ervous System and Periological Exposure In		ystem
Poly(Vinyl chloride) resin	Proprietary mixture	n/a	n/a	n/a	n/a	n/a
		nal exposure li d toxic chemic		ablished. Per manuf	acturer, the resin is	'not
Tetrahydrofuran	109-99-9	590	147	735	735	150
	Central Nerve Confirmed ar in experiment histological ty Available epi humans. Ava	ous System implimal carcinoge tal animals at a taype(s), or by m demiologic stualable evidence	pairment. Upper R en with unknown re- relatively high dos echanism(s) that m dies do not confirm e does not suggest	rritation, nausea, von tespiratory Tract irritatelevance to humans. se, by route(s) of admay not be relevant to an increased risk of that the agent is likel outes or levels of exp	ation. Kidney dama The agent is carcin ministration, at site(s worker exposure. If cancer in exposed y to cause cancer in	age. ogenic s), of
Titanium dioxide	13463-67-7	15	10	Fine particles: 2.4 Ultrafine particles: 0.3		4
(1) Occupational Saf	meaningless in coating. Low Effect: Nuisa No increase in dioxide manu	for the paint proper Respiratory of the particulate, in risk for lung of the facturing work of the paint of the particular of the paint of th	oduct as delivered, Tract irritation. Sl. accumulation in locancer (or any others.	otal dust maximum is but apply while sand ight lung fibrosis (ca ungs. Not classifiabler specific cause of de	ding or abrading of reinogenic in rats). e as a human carcireath) among titaniu	dried Health nogen. m

(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
Lower explosion limit
Solubility in water >-13 °C (solvent data)
3 vol% (solvent data)
16 vol% (solvent data)
Solvents are soluble

Vapor pressure 213.3 hPa at 25 °C (solvent data)

Density 0.8-1.1 g·cm⁻³ 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.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides (NO_x).

Acute toxicity					
Name	NIOSH IDLH (mg/m³)	Oral LD ₅₀ (mg/kg) rat	Inhalation LC ₅₀ (r	at)	Dermal LD ₅₀ (mg/kg) rabbit
Methyl ethyl ketone	5900	2737	32000 (mouse) 38000 (mammal)		6480 (rabbit)
Poly(vinyl chloride) resin	n n/a	n/a	n/a		n/a
Tetrahydrofuran	5877	1650 (rat) 2300 (guinea pig	61000 (3h) Drows Thorax or Respira		>2000 (rat)
Titanium dioxide	5,000	>10,000	n/a		>10,000
Prolonged Exposure					
Name	Skin corrosi	on / irritation	Serious eye damage / irritation	Respiratory of	or skin sensitization
Methyl ethyl ketone	Rabbit – ski	n irritation (24h)	No data available	No data avail	lable
Poly(vinyl chloride) resin	n No data ava	ilable	No data available	No data avail	lable
Tetrahydrofuran	Rabbit – mil (Draize test)	d skin irritation	Rabbit – risk of serious damage to eyes (Draize test)	Mouse – did on laboratory	not cause sensitization animals
Titanium dioxide	Human: Mil	d skin irritation (3h)) Rabbit: No eye irritation	Will not occu	ır
Germ cell mutagenicity					
Tetrahydrofuran		s did not show muta	agenic effects		
Titanium dioxide			r – ovary: Micronucleus test. r – lungs: DNA inhibition.		
			r – rungs. DIVA minorion. r – ovary: Sister Chromatoid exc	hange	
			- intraperitoneal: Micronucleus t		
All other ingredients	No data av		marapernonear. Micronacieus (est.	
Carcinogenicity					
			nct present at levels greater than man carcinogen by IARC.	or equal to 0.1	% is identified as
resin	application. Th		quivocal tumorigenic agent by Fains a component that is not class classification.		

No component of this product present at levels greater than or equal to 0.1% is identified as probable,

Rat - intramuscular: Tumorigenic: Neoplastic by RTECS criteria. Blood: Lymphomas including

Rat – inhalation: Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration: Tumors.

Reproductive toxicity

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

TeratogenicityNo data available

Tetrahydrofuran

Titanium dioxide

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

possible or confirmed human carcinogen by IARC

Hodgkin's disease. Tumors at site or application.

Methyl ethyl ketone May cause drowsiness or dizziness.

Tetrahydrofuran All other ingredients No data available.

May cause drowsiness or dizziness. Nervous system No data available.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Titanium dioxide).

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

		tv

Toxicity			
	Fish	Daphnia and other marine	Bacteria
	LC_{50} (mg/dm ³ /96 h)	invertebrates	LC_{50} (mg/dm ³)
Name		EC ₅₀ (mg/dm ³ /48 h)	
Methyl ethyl ketone	Mortality NOEC: 400 Cyprinodon variegatus (sheepshead minnow) 3,130	LC50 >520 (mg/dm ³ /48 h)	n/a
	Pimephales promelas	EC50 7,060 (mg/dm ³ /24 h)	
Poly(vinyl chloride) resin	No data available	No data available	No data available
Tetrahydrofuran	2,160 Pimephales promelas (fathead	n/a	Growth inhibition
	minnow)	NOEC: 3,700 mg/dm ²	
			(Algae)
Titanium dioxide	>1,000 (other fish)	1,000	No data available.
Persistence and degradal	bility		
Tetrahydrofuran	Expected to be biodegradable		

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.

Container

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

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)

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

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: Dec 1, 2014.

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.