A-300WH – PVC Adhesive (White)

Page 1 of 7

1. PRODUCT AND COMPANY INFORMATION

Trade name **PVC** Adhesive White Product codes ZGA-300WH, A300-WH 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)

HAZARD IDENTIFICATION

Emergency Overview

OSHA Hazards

Flammable Liquid, Target Organ Effect, Irritant.

Target Organs

Central nervous system, Liver, Kidney, Eyes.

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









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
Flammability	3	3
Reactivity		0
Physical hazard	3	

A-300WH – PVC Adhesive (White)

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

Synonym	CAS	EINECS	Index	Concentration
Oxolane; THF	109-99-9	203-726-8	603-025-00-0	50-70%
Modified PVC polymer	Proprietary mixture	n/a	n/a	20-35%
Butanone-2; MEK	78-93-3	201-159-0	606-002-00-3	10-20%
Titanium(IV) oxide	13463-67-7	236-675-5	n/a	2-3%
	Oxolane; THF Modified PVC polymer Butanone-2; MEK	Oxolane; THF 109-99-9 Modified PVC polymer Proprietary mixture Butanone-2; MEK 78-93-3	Oxolane; THF 109-99-9 203-726-8 Modified PVC polymer Proprietary mixture n/a Butanone-2; MEK 78-93-3 201-159-0	Oxolane; THF 109-99-9 203-726-8 603-025-00-0 Modified PVC polymer Butanone-2; MEK Proprietary mixture 78-93-3 n/a 201-159-0 606-002-00-3

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.

Specific hazards

Flash back possible over considerable distance. Container explosion may occur under fire conditions.

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: 10-25 °C.

A-300WH – PVC Adhesive (White)

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational	exposure	limits	where	established))
Occupational	CAPOBUIC.	minimo '	(VV IICI C	Cotta Offica /	

	—— Occupational exp				xposure limits (mg/m³) ———		
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	
				al Nervous System and Exposure Index.	d Peripheral Nervo	ous System impairment.	
Poly(vinyl chloride) resin	Proprietary mixture	n/a	n/a	n/a	n/a	n/a	
	No occupation toxic chemical		mits have bee	en established. Per ma	nufacturer, the res	sin is 'not hazardous and	
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	
	for the paint p	roduct as deli	vered, but app	ust (total dust maximuly while sanding or ab	orading of dried co		

The established limits are for respirable dust (total dust maximum is 15 mg/m³) 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.

(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 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.

A-300WH – PVC Adhesive (White)

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 closed cup (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 25.0 °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

Oxidizing agents.

Hazardous decomposition products

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

Other decomposition products - no data available

11. TOXICOLOGICAL DATA

Acute toxicity

Name	NIOSH IDLH	Oral LD ₅₀	Inhalation LC ₅₀	Dermal LD ₅₀
Name	(mg/m^3)	(mg/kg) rat	$(mg/m^3/4 h)$ rat	(mg/kg)
Methyl ethyl ketone	5,900	2,737	32,000 (mouse)	6,480 (rabbit)
			38,000 (mammal)	
Poly(vinyl chloride) resin	n/a	n/a	n/a	n/a
Tetrahydrofuran	5,877	1,650 (rat)	61,000 (3 h) Drowsiness.	>2,000 (rat)
		2,300 (guinea pig)	Lungs, Thorax, or Respiration.	
Titanium dioxide	5,000	>10,000	n/a	>10,000 (rabbit)

Prolonged Exposure

Name	Skin corrosion / irritation	Serious eye damage / irritation	Respiratory or skin sensitization
Methyl ethyl ketone	Rabbit - skin irritation (24 h)	No data available.	No data available.
Poly(vinyl chloride)	No data available.	No data available.	No data available.
resin			
Tetrahydrofuran	Rabbit - mild skin irritation	Rabbit - risk of serious damage	Mouse - did not cause
	(Draize Test)	to eyes (Draize Test)	sensitization.
Titanium dioxide	Human: Mild skin irritation (3 h)	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.

A-300WH – PVC Adhesive (White)

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) 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.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans.

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.

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 No data available.

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

$Specific \ target \ organ \ toxicity \ \textbf{-} \ repeated \ exposure \ (Globally \ Harmonized \ System)$

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 ₅₀ (mg/dm ³ /96 h)	Daphnia magna (Water flea) and other marine invertebrates	Algae
Methyl ethyl ketone	Mortality NOEC: 400 Cyprinodon variegatus (sheepshead minnow) 3,130 Pimephales promelas	LC50 >520 (mg/dm ³ /48 h) EC50 7,060 (mg/dm ³ /24 h)	n/a
Poly(vinyl chloride) resin	No data available.	No data available.	No data available.
Tetrahydrofuran	2,160 Pimephales promelas (fathead minnow)	n/a	Growth inhibition NOEC: 3,700 mg/dm³ (Algae)
Titanium dioxide	>1,000 (other fish)	$1,000 \text{ mg/dm}^3/24 \text{ h}$	n/a

A-300WH – PVC Adhesive (White)

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. Do not incinerate closed containers.

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 5.0 litres may be shipped as CONSUMER COMMODITY.

Larger quantities are regulated as follows:

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

UN1133; Class 2; Packing Group II

Proper shipping name

Adhesive.

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 (1,000 lb)

15. REGULATORY INFORMATION

OSHA Hazards

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

TSCA and DSL

Listed or exempt

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA 313

No chemicals in this material 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.

A-300WH – PVC Adhesive (White)

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. Unlimited paper copies of this publication may be made by the users for internal purposes only. Last modified: Friday, 8 July 2011 07:51.

Disclaimer

All information and data appearing on this Material 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.