

SAFETY DATA SHEET, revised 03 March 2020, printed 03 March 2020

A-300CL PVC Adhesive Clear**1. PRODUCT AND COMPANY INFORMATION**

Trade name	PVC Adhesive Clear
Product codes	ZGA-300CL, A300CL
Chemical family	Resin solution
Intended use	Adhesive for welding of PVC

Company	Colorado Paint Company II, LLC 2851 N. Walden Street Aurora, CO 80011; U. S. A.

Telephone	+1 303-388-9265
Web site	www.swarco.com/cpc
Emergency (Chemtrec; 24 h)	1-800-424-9300 (U. S. A. and Canada)

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

Highly flammable liquid and vapor. Causes serious eye damage. Suspect cancer hazard.

Target Organs

Central nervous system, Liver, Kidney.

GHS Classification

Flammable liquids (Category 2)

Serious eye damage (Category 1)

Specific target organ toxicity - single exposure (Category 3)

Carcinogenicity (Category 2)

GHS Label elements, including precautionary statements

Pictograms:

Signal word: Danger**Hazard statements**

H225 Highly flammable liquid and vapor.

H302 Harmful if swallowed

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H336 May cause dizziness, and drowsiness.

H351 Suspected of causing cancer

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

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- P264 Wash with plenty of water and soap thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P310 IF SWALLOWED Rinse mouth. Immediately call a POISON CENTER or doctor/physician.
- P303+361+353 IF ON SKIN (or hair) Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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.
- P308+313 If exposed Call a POISON CENTER or doctor/physician.
- P312 Call a POISON CENTER/ doctor/physician if you feel unwell.
- P370+378 In case of fire: Use appropriate method to extinguish.
- P403+235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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. Vapors 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	40-55%
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	20-35%

4. FIRST AID MEASURES

General advice

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

If inhaled

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention.

If on skin

Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately and clean shoes before reuse.

In case of an eye contact

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

If swallowed

Small amounts which accidentally enter mouth should be rinsed out until taste of it is gone. To prevent aspiration, keep head below knees. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

Most important symptoms and effects, both acute and delayed

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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 dry chemical or carbon dioxide.
For large fires, use alcohol-type aqueous film-forming foam or water spray.

Special protective equipment for fire fighters

Wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear for fire fighting if necessary.

Hazardous combustion products

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

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 vapor 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
	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

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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.

(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 Clear, hazy
 Odor Strong, irritating, characteristic of tetrahydrofuran

Safety data

Boiling point >60 °C (solvent data)
 Freezing point Not available
 Flash point >-17 °C (solvent data)
 Upper explosion limit 1.8 vol% (solvent data)
 Lower explosion limit 11.8 vol% (solvent data)
 Solubility in water Solvent 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.

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Possibility of hazardous reactions

Vapors 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).

11. TOXICOLOGICAL DATA

Acute toxicity

Name	NIOSH IDLH (mg/m ³)	Oral LD ₅₀ (mg/kg) rat	Inhalation LC ₅₀ (rat)	Dermal LD ₅₀ (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)

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

Germ cell mutagenicity

Tetrahydrofuran	In vivo tests did not show mutagenic effects
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

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
All other ingredients	No data available.

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

No data available.

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Aspiration hazard

No data available

Potential health effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Vapors 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 and other marine invertebrates EC ₅₀ (mg/dm ³ /48 h)	Bacteria LC ₅₀ (mg/dm ³)
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/dm ³ (Algae)

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.

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 3; 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	20-35%	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: 02/03/2020.

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 not be 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.