

This is a list of the solvents NOT ALLOWED in the shop:

- Mineral Spirits
- Denatured Alcohol
- Ammonia
- Acetone
- Simple Green
- Bleach
- Safer Paint Thinner

Each of these chemicals has serious health risks and Zygote Press as an organization is extremely excited to initiate healthier and environmentally friendly alternatives for use in our shop.

Here is the list of what we are replacing the previously used toxic chemicals with:

-Mineral Spirits	REPLACED WITH:	Estisol (a coconut, non VOC solvent)
-Denatured Alcohol	REPLACED WITH:	Alcohol (non-ethanol product)
-Ammonia	REPLACED WITH:	Soy Sauce (used to degrease intaglio plates)
-Acetone	REPLACED WITH:	Citra Solve (natural citrus based transfer method)
-Simple Green	REPLACED WITH:	Water and Soap (will be in spray bottles, used just like simple green as final cleaning tool)
-Bleach	REPLACED WITH:	Emulsion Remover
-Safer Paint Thinner	REPLACED WITH:	Estisol (a coconut, non VOC solvent)

If you have any questions or concerns with how or when to use the replacement chemicals please just communicate with the shop manager, Rebekah Wilhelm, and she will be happy to explain, give a demonstration of use, and or do further research for you.

Below is a break down of the Chemicals that we are introducing as well as the reasons for the removal of the previously used chemicals. Please do read through to educate yourself on the reasons that we are making this change. Again, if you have any questions please don't hesitate to contact the Shop Manager.

Descriptions of New Replacement Chemicals:

Estisol:

A coconut based, non-VOC chemical that works just like Mineral Spirits. This chemical is to be used as a last resort cleaner. Most clean ups should be done with Oil, Vinegar and Water and finished off with the Soap and Water Mixture. The Estisol will be mainly used in the Letter Press and Intaglio parts of the shop. Again, the use of this chemical should be a last resort cleaner.

Citra Solve: Citra Solv Natural Citrus Cleaner is a versatile citrus solvent that's ideal for a variety of art applications, including fabric transfer and photo transfers. Great for those with chemical sensitivities, Citra Solv can also be used for cleaning brushes, tools, equipment, and clothing in the studio or in the home. Use it full-strength for especially tough jobs, or dilute it with water for everyday cleaning. Citra Solv contains D-Limonene (a clear liquid derived from orange peel), Five Fold Orange Oil, and a biodegradable surfactant derived from coconut. No animal-based ingredients are used in its manufacture and no testing is conducted on animals.

HEALTH ISSUES AND OR CONCERNS (WITH PREVIOUSLY USED CHEMICALS):

MINERAL SPIRITS: Inhalation Acute Exposure Effects: Vapor concentration may cause headache, dizziness, irritation of the respiratory tract, eye irritation, stupor, depression of the central nervous system, watering of the eyes, weakness, nausea, muscle twitches, and kidney effects. Aspiration in to

lungs may cause pneumonia or death. Severe overexposure may cause convulsions, unconsciousness, and death.

Extremely combustible, vapors may cause fire. This material is classified as hazardous under OSHA regulations.

DENATURED ALCOHOL: Consists of ethanol deliberately rendered toxic by the addition of hard-to-separate toxic substances. TOXIC; may be fatal if inhaled, ingested or absorbed through skin. Inhalation or contact with some of these materials will irritate or burn skin and eyes. Fire will produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation. Runoff from fire control or dilution water may cause pollution.

AMMONIA: Can cause respiratory tract burns, skin burns, eye burns, and mucous membrane burns. Containers may rupture or explode if exposed to heat.

ACETONE: Emergency Overview: This product is a clear, volatile, flammable liquid. Has a sweet, mint-like odor. Highly flammable. Vapors may form explosive mixtures with air. The product causes irritation of eyes, skin and mucous membranes. Repeated exposure may cause skin dryness and or cracking. Harmful by inhalation. Harmful: may cause lung damage if swallowed. Causes headache, drowsiness or other effect to the central nervous system. Do not allow product to contact skin, eyes and clothing. Do not breathe vapors. Repeated or prolonged exposure may cause damage to the liver and kidney.

SIMPLE GREEN: Contains the ingredients 2-Butoxyethanol (High Concern: digestive system effects, blood-related effects; Some Concern: general systemic/organ effects, cancer, nervous system effects, respiratory effects, skin irritation/allergies/damage, developmental/endocrine/reproductive effects, damage to vision), Tetrapotassium Pyrophosphate (High Concern: general ecotoxicity), Alcohol Ethoxylates (C9-11, 4-8EO) (Some Concern: cancer, developmental/endocrine/reproductive effects, damage to

DNA, respiratory effects, nervous system effects, digestive system effects, acute aquatic toxicity, skin irritation/allergies/damage, damage to vision)

BLEACH: Will cause severe irritation to the nose, throat and respiratory system with effects including: Dizziness, headache, coughing, loss of co-ordination, chest pains, respiratory paralysis or failure. Will cause burns to the mouth, mucous membranes, throat, esophagus and stomach, if sufficient quantities are ingested death may occur. Prolonged or repeated skin contact will lead to necrosis (death) of the skin. Prolonged or repeated exposure and inhaling the vapors may result in lung function incapacity or death. Very alkaline. Will react violently with acids, producing heat and generating chlorine gas. Oxidizer. Contact with combustible materials may cause fire. Will react violently with reducing agents. Will react with aluminum, tin and zinc, generating hydrogen, a flammable gas. May react with peroxides and metal salts. Contact with ammonium salts may generate ammonia gas.

This substance may cause long-term adverse effects in the aquatic environment.

Safer Paint Thinner: Breathing high concentrations may be harmful. Mist or vapor can irritate the throat and lungs. Breathing may cause dizziness; headache; watering of eyes; eye irritation; weakness; muscle twitches, and depression of the central nervous system. Severe overexposure may cause convulsions, unconsciousness and death. Can cause mild, transient skin irritation with short-term exposure. Harmful or fatal if swallowed.

Cleveland Drop-off the first Friday of every month, 5600 Carnegie Avenue,

9:00-3:00. No latex paint. Questions, call (216) 664-3717

www.cleveland-oh.gov

East Cleveland Year-round drop-off, 1610 Eddy Road, M-F 8:00-3:30.

Household materials accepted

Oil or solvent-based paint, sealers, primers,

or coatings (aerosols or liquids) Varnishes,

polyurethanes, shellacs Paint thinner,

mineral spirits, turpentine Pesticides,

herbicides, fungicides Caustic household

cleaners Pool chemicals Automotive

fluids, motor oil, car batteries Adhesives,

roof tar, driveway sealer Kerosene,

gasoline, lighter fluid Mercury, fluorescent

bulbs (6 ft. length max.)

Materials NOT accepted

Latex paint Explosives, gun powder, ammunition, flares Medical waste,

pharmaceuticals, medicine, sharps Radioactive waste (smoke

detectors) Tires Electronics, appliances Business or commercial

waste

Proper Disposal of Hazardous Household Products and Special Wastes

brochure (PDF)