

Safety Data Sheet

acc. to OSHA HCS


Printing date 03/28/2020

Reviewed on 11/17/2020

1 Identification

- **Product identifier**
- **Trade name:** U.S. Art Supply Alcohol Ink Color Blender Solution, Large 4.2 Ounce Bottle - Alcohol-Based Dye Paint Blending Mixing Solution to Lighten, Blend, Dilute, Re-Wet, Remove, Lift Ink - Epoxy Resin Art
- Details of the supplier of the safety data sheet
- **Manufacturer / Supplier:**
U.S. Art Supply
6695 Rasha St, San Diego, CA. 92121
858-909-2100
Email: support@tcpglobal.com
- **Emergency telephone number:**
CHEMTREC - 1-800-262-8200

2 Hazard(s) Identification

- **NFPA ratings (scale 0-4)**


Health = 1
Fire = 4
Reactivity = 1
- **Classification of the substance or mixture**
Classification according to the Globally Harmonized System (GHS): Flammable Liquid(Category 2)
- **Hazard pictograms**



GHS02

- **Signal word** Danger
- **Hazard statements** H225 Highly flammable liquid and vapour.
- **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = 1
FIRE	4	Fire = 4
REACTIVITY	1	Reactivity = 1

- **Other hazards**
- **Prevention Precautionary statements:**
P210 Keep away from heat/sparks/open flames/hot surfaces-No smoking.
P233 Keep container tightly closed. P240 Container and receiving equipment grounding.
P241 Use explosion--proof electrical/ventilating/lighting... Equipment. P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves / protective clothing / Wear protective goggles / face protection.
- **Response Precautionary Statements:**
P303+P361+P353 IF ON SKIN(or hair): Immediately remove / Take off all contaminated clothing.
Rinse skin with water / shower.
P370+P378 In case of fire: Use fire extinguisher for fire-fighting.
- **Disposal Precautionary Statements:**
P501 Disposal of contents/container in accordance with local/regional/national/international regulation.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with additions.

• Dangerous components:		
64-17-5	Ethyl Alcohol	90.00%
• Non-dangerous components:		
68424-99-7	Resin	10.00%

4 First-aid measures

- **Description of first aid measures**

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- **General information:** No special measures required.
- **After inhalation:** If there have unwell feeling, supply fresh air, consult doctor in case of complaints.
- **After skin contact:** Washing with water and soap for a few minutes.
- **After eye contact:** Immediately flush eyes with plenty of water for a few minutes, occasionally lifting the upper and lower eyelids. If the symptoms can not be eased, get medical aid immediately.
- **After swallowing:** Gargle with water, and to drink enough water or milk to emetic. If symptoms persistent consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed.**
No further relevant information available.

5 Fire-fighting measures

- **Protective equipment:** Wear fully protective suit, Mouth respiratory protective device. Do not inhale explosion gases or combustion gases.
- **Extinguishing Media:** Water, CO₂, Sand, extinguishing powder.
- **Special hazards arising from the substance or mixture:** Heating or burning will release toxic gases or fumes.
- **Flash point:** 16 °C
- **Advice for firefighters:** Wear fully protective suit, Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:** Wear protective equipment.
- **Environmental precautions:** Do not allow much product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewages system.
- **Methods and material for containment and cleaning up:**
~Small leak: Mix absorb leaked material with (sand, diatomite, sawdust) then Cleaning and placed into a suitable container handling, and scrub the area with towel and water.
~Much leak: Isolation accident area to prevent the leak products to be contaminated, and then to recycling collection the leak products.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Store in cool, dry place in tightly closed receptacles. Ensure good ventilation /exhaustion at the workplace.
- **Information about protection against explosions and fires:** Keep ignition sources away. Don't smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from flammable substances.
- **Further information about storage conditions:** Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure control / personal protection

- **Additional information about design of technical systems:** see item 7.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
Airtight production, enhance ventilation, Provide safety shower and eyeeyewash equipment.
- **Breathing equipment:** No special respiratory protection is required for use of these products. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHS standard, applicable U.S. State regulations, or the Canadian CSA standard.
- **Body protection:** General protective clothing.

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- **Protection of hands:** Choose rubber or plastic gloves with elbow-length gauntlet.
The glove material has to be impermeable and resistant to the product / the substance / the preparation.
Due to missing tests no recommendation to the glove material can be given for the product / the preparation / the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- **Material of gloves**
Selection of the glove material does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Unnecessary, When necessary wear chemical goggles or face shield.

9 Physical and chemical properties

• Information on basic physical and chemical properties	
• General Information	
• Appearance:	
Form:	Fluid
Color:	Clear colors
• Odor:	Odorless
• Odor threshold:	Not determined.
• PH-value at 20 °C (68 °F):	4.5-10
• Change in condition:	
Melting point / Melting range:	< -30 °C
Boiling point / Boiling range:	70 °C (158 °F)
• Flash point:	>16 °C (> (60. 8°F) (closed cup)
• Flammability (solid, gaseous):	Not determined.
• Ignition temperature:	
Decomposition temperature:	Not determined.
• Auto igniting:	Not determined.
• Danger of explosion:	Not determined.
• Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
• Vapor pressure:	Not determined.
• Density:	
• Relative density:	1 (Water=1)
• Vapor density:	>1 (Air=1)
• Evaporation rate:	Not determined.
• Solubility in / Miscibility with	
Water:	Soluble
• Partition coefficient (n-octanol/water):	Not determined.
• Viscosity:	
Dynamic:	2.0
Kinematic:	Not determined.
Other information:	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Normally stable, but can become unstable at elevated temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** See section 7.
- **Incompatible materials:** No further relevant information available.

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- **Hazardous decompositions products:** The following combustion products may be generated: carbon dioxide, carbon monoxide, water vapor, and trace volatile organic compounds.
- **Hazardous polymerization** Hazardous polymerization will not occur.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

• LD/LC50 values that are relevant for classification:
64-17-5 Ethyl alcohol
Oral LD50 7060 mg/kg(Mouse)

Inhalation LC50 inhalation 20000 ppm/10H(Rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effects known.
- **on the eye:** No irritating effects known.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations. When used and handled according to specification, the product does not have any harmful effects according to our experience and the information provided to us.

- **Alcohol Mutagenicity**

Microbial mutagenicity: Salmonella typhimurium(s) bacteria 11 pph.

Dominant lethal test: mice by mouth 1-1.5g/kg/day, 2 weeks, positive.

Cytogenetic analysis: Human lymphocytes 2.5pph/24h, Sister chromatid exchange: human lymphocytes 500ppm/72h.

Inhibition of DNA: Human lymphocytes 220mmol/l. Micronucleus test: Dog lymphocytes, 400umol/l.

- **Alcohol Teratogenicity:**

After 2-17 weeks pregnant monkeys orally administered lowest toxic dose (TDL0) 32400mg/kg, cause central nervous system and Craniofacial (including nose and tongue) Malformations. Different time, rats, mice, guinea pigs, pregnant animals orally, intravenously, intraperitoneal route of administration of different doses, induced central nervous system, Urogenital system, endocrine system, hepatobiliary system, respiratory system, Craniofacial including nose and tongue, eye, ear malformations. 30 days prior to mating male rats orally administered 240g/kg, cause urogenital malformations.

- **Carcinogenic categories**

• IARC (International Agency for Research on Cancer)
None of the ingredients is listed.
• NTP (National Toxicology Program)
None of the ingredients is listed.
• OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** Ethyl alcohol LC50: 13480mg/l/96h(fish); 50% inhibitory concentration
- **Persistence and degradability:** Removable from water.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **Ecotoxic effects:** May cause long-term adverse effects in the environment.
- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Product:** Must be disposed of in accordance with applicable Federal, state and local regulations.
- **Waste treatment methods**
- **Recommendation:** Must not be disposed together with household garbage. Do not allow product to reach sewage
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

• UN-Number	
• DOT, ADR, ADN, IMDG, IATA	1210
• UN proper shipping name	
• DOT, ADR, ADN, IMDG, IATA	Ink, flammable.
• Transport hazard class(es)	
• DOT, ADR, ADN, IMDG, IATA	
• Class	3
• Packing group	
• DOT, ADR, IMDG, IATA	II
• Environmental hazards:	Not applicable.
• Special precautions for user	Not applicable.
• Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
• UN "Model Regulation":	Void

15 Regulatory information

- **Safety, health and environmental regulations / legislation specific for the substance or mixture**

• Section 355 (extremely hazardous substances):	None of the ingredients is listed.
• Section 313 (Specific toxic chemical listings):	None of the ingredients is listed.
• TSCA (Toxic Substances Control Act):	All ingredients are exempted.
• WHMIS: Not controlled under SHMIS.	
• DSCL: Not controlled under DSCL.	
• Proposition 65	
• Chemicals known to cause cancer:	None of the ingredients is listed.
• Chemicals known to cause reproductive toxicity for females:	None of the ingredients is listed.
• Chemicals known to cause reproductive toxicity for males:	None of the ingredients is listed.
• Chemicals known to cause developmental toxicity:	None of the ingredients is listed.
• Carcinogenic categories	
• EPA (Environmental Protection Agency)	None of the ingredients is listed.
• TLV (Threshold Limit Value established by ACGIH)	None of the ingredients is listed.
• NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the ingredients is listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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16 Other information

The contents and format of this SDS are in accordance with ISO Commission Directive ISO 11014:2009, and OSHA Hazard Communication Standard 29 CFR 1910.1200(HCS).

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet (SDS)(6615)351-1392-7 is prepared upon applicant Shanghai Ink Solver Industry Co.,Ltd's request. However, no SDS of ingredients was provided by the applicant. And no further testing data provided. Therefore, this document is compiled in accordance with what we obtained.

Date of preparation / last revision 08/28/2020

Abbreviations and acronyms:

ADR: Accord europeen sur le transport des marchandises dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG:International Maritime Code for Dangerous Goods.

DOT:US Department of Transportation

IATA:International Air Transport Association

ACGIH:American Conference of Governmental Industrial Hygienists

EINECS:European Inventory fo Existing Commercial Chemical Substances

ELINCS:European List of Notified Chemical Substances

CAS:Chemical Abstracts Service (division of the American Chemical Society)

NFPA:National Fire Protection Association(USA)

HMIS:Hazardous Materials Identification System(USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH:National Institute for Occupational Safety

OSHA : Occupational Safety & Health Act.

***** The End *****