SAFETY DATA SHEET

1. Identification

Product identifier Castin' Craft Transparent Dye (Red, Blue, Green, Amber, Yellow)

Other means of identification

SDS number

Product code 46428, 46438, 46432, 46430, 46436, 00525

Recommended use Coloring agent for Casting Resin, Castin Epoxy, and Epoxy Resin.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Environmental Technology, Inc.

Address 300 S. Bay Depot Road

Fields Landing CA 95537

Telephone Telephone number 707-443-9323

E-mail mail@eti-usa.com
Contact person Technical Director

Emergency phone number CHEMTREC 800-424-9300

2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 4Health hazardsSerious eye damage/eye irritationCategory 2B

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Combustible liquid. Causes eye irritation.

Precautionary statement

Prevention Keep away from flames and hot surfaces. - No smoking. Wash thoroughly after handling. Wear

protective gloves/eye protection.

Response In case of fire: Use appropriate media for extinction. If in eyes: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye

irritation persists: Get medical advice/attention.

Storage Store in a well-ventilated place. Keep cool.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Prolonged contact may cause dryness of the skin. Static Accumulating Liquid.

Supplemental information

Not applicable.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Dipropylene glycol monomethyl ether	Proprietary	>50%
Acetone	67-64-1	<5%

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Copper Compound Proprietary <0.5%

The identities of the materials in this product are withheld as a trade secret (29CFR1910.1210(i)) and are available to a physician or paramedical personnel in a emergency situation.

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation

Move into fresh air and keep at rest. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.

Skin contact Eye contact

Ingestion

Wash off with soap and water. Get medical attention if irritation develops or persists.

Immediately flush with plenty of water for up to 15 minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

Rinse mouth. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Do not induce vomiting. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed Irritation of eyes and mucous membranes. Exposed individuals may experience eye tearing, redness, and discomfort. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Respiratory tract irritation. Defats the skin.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

treatment needed
General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. First aid personnel must be aware of own risk during rescue.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide (CO2) to extinguish flames. None known.

Specific hazards arising from the chemical

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. Take precautionary measures against static discharge. Static charges generated by emptying package in or near flammable vapor may cause flash fire. During fire, gases hazardous to health may be formed. Carbon oxides. Hydrocarbons.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Fire-fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Vapors are heavier than air and may spread near ground to sources of ignition. Move container from fire area if it can be done without risk.

Specific methods
General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

Vapors are heavier than air and may spread near ground to sources of ignition.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective clothing as described in Section 8 of this safety data sheet. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Ensure adequate ventilation. Avoid inhalation of vapors or mists. Avoid contact with skin and eyes. Keep unnecessary personnel away. Keep out of low areas. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see Section 13 of the SDS.

Never return spills in original containers for re-use.

Environmental precautions

Avoid discharge into storm drains, water courses or onto the ground.

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7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. Take measures to prevent the build up of electrostatic charge. Bonding and grounding may be insufficient to eliminate the hazard from static-accumulating flammable liquids. See NFPA 77, Recommended Practice on Static Electricity (2007), for additional information. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

Conditions for safe storage, including any incompatibilities

Follow rules for combustible liquids. Store locked up. Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Ground container and transfer equipment to eliminate static electric sparks.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
Copper Compound (CAS Proprietary)	PEL	1 mg/m3	Dust and mist.
-1 37		0.1 mg/m3	Fume.
Dipropylene glycol monomethyl ether (CAS	PEL	600 mg/m3	
Proprietary)		100 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	Form
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Copper Compound (CAS Proprietary)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Dipropylene glycol monomethyl ether (CAS Proprietary)	STEL	150 ppm	
	TWA	100 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	Form
Acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
Copper Compound (CAS Proprietary)	TWA	1 mg/m3	Dust and mist.
Dipropylene glycol monomethyl ether (CAS Proprietary)	STEL	900 mg/m3	
		150 ppm	
	TWA	600 mg/m3	
		100 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*	

^{* -} For sampling details, please see the source document.

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Exposure guidelines

US - California OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS Proprietary) Can be absorbed through the skin.

US - Tennesse OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS Proprietary) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Dipropylene glycol monomethyl ether (CAS Proprietary) Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Dipropylene glycol monomethyl ether (CAS Proprietary) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Dipropylene glycol monomethyl ether (CAS Proprietary) Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide adequate ventilation and minimize the risk of inhalation of vapors. Provide easy access to water supply and eye wash facilities. Use explosion-proof equipment.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields or goggles. Eye/face protection

Skin protection

Hand protection Chemical resistant gloves. Be aware that the liquid may penetrate the gloves. Frequent change is

advisable.

Other Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.

Respiratory protection No protection is ordinarily required with adequate ventilation. Use an organic vapor respirator for

concentrations exceeding the Occupational Exposure Limit.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Clear liquid. **Physical state** Liquid. Form Liquid. Color Various. Ether-like Odor **Odor threshold** Not available. Not available. Нα Not available.

Melting point/freezing point Initial boiling point and boiling

range

374 °F (190 °C)

185.0 °F (85.0 °C) Closed Cup Flash point

Evaporation rate Not available. Flammability (solid, gas) Combustible. Upper/lower flammability or explosive limits Flammability limit - lower Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available.

Vapor density 5.11

Not available. Relative density

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Solubility(ies)

Soluble Solubility (water) Partition coefficient Not available. (n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Viscosity Not available.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Stable at normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Elevated temperatures. Contact with

incompatible materials. Electrostatic discharge.

Incompatible materials Acid. Aluminum. Strong bases. Strong oxidizing agents.

Hazardous decomposition Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

products

11. Toxicological information

Information on likely routes of exposure

Ingestion Ingestion may cause irritation and malaise.

Inhalation Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May

cause respiratory tract irritation.

Skin contact May cause redness and pain. Prolonged or repeated skin contact may cause drying, cracking, or

irritation.

Eye contact Causes eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Skin sensitization

Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Mild eye

irritation. May cause respiratory irritation.

Information on toxicological effects

Acute toxicity	Ingestion may cause irritation and malaise. Vapors may cause drowsiness and dizziness.		
Components	Species	Test Results	
Acetone (CAS 67-64-1)			
Acute			
Dermal			
LD50	Rabbit	20 ml/kg	
Inhalation			
LC50	Rat	50 mg/l, 8 Hours	
Oral			
LD50	Rat	5800 mg/kg	
Dipropylene glycol monomethyl e	ether (CAS Proprietary)		
Acute			
Dermal			
LD50	Rabbit	9.5 g/kg	
Oral			
LD50	Rat	5.35 g/kg	
Skin corrosion/irritation	Prolonged contact may cause dryness of the skin.		
Serious eye damage/eye irritation	Causes eye irritation.		
Respiratory or skin sensitization	on		
Respiratory sensitization	No data available.		

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No sensitizing effects known.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classified by IARC, ACGIH, NTP or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity No test data available for the product.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Due to lack of data the classification is not possible.

Chronic effects Prolonged inhalation may be harmful. May affect the nervous system and cause headache,

nausea, vomiting, and narcosis.

12. Ecological information

EcotoxicityThe product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

Acetone (CAS 67-64-1)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

Copper Compound (CAS Proprietary)

Aquatic

Crustacea EC50 Water flea (Daphnia obtusa) 0.0076 - 0.026 mg/l, 48 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient n-octanol / water (log Kow)

Acetone (CAS 67-64-1) -0.24

Mobility in soil No data available.

Mobility in general The product contains volatile organic compounds (VOC) which will evaporate easily from all

surfaces.

Other adverse effects The photochemical formation of ozone and other harmful substances in polluted air depends on

emissions of all VOCs (man made and biogenic) and other compounds in a complex interactin

with other factors such as meteorology.

13. Disposal considerations

Disposal instructions Dispose of waste material according to Local, State, Federal, and Provincial Environmental

Regulations.

Local disposal regulationsDispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

US RCRA Hazardous Waste U List: Reference

Acetone (CAS 67-64-1) U002

Waste from residues / unused

products

Dispose of in accordance with local regulations. Do not allow this material to drain into

sewers/water supplies.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

This material is not regulated under 49 CFR if in a container of 119 gallon capacity or less. Since the dyes in the Dye Kit are in containers with a capacity of less than 119 gallons, they are not regulated for DOT purposes.

IATA

Not regulated as dangerous goods.

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IMDG

the IBC Code

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

This substance/mixture is not intended to be transported in bulk.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1) LISTED Copper Compound (CAS Proprietary) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Yes

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1) 6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1) 6532

US state regulations

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)

Copper Compound (CAS Proprietary)

Dipropylene glycol monomethyl ether (CAS Proprietary)

US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)

Copper Compound (CAS Proprietary)

Dipropylene glycol monomethyl ether (CAS Proprietary)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)

Copper Compound (CAS Proprietary)

Dipropylene glycol monomethyl ether (CAS Proprietary)

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US. Rhode Island RTK

Acetone (CAS 67-64-1)

Copper Compound (CAS Proprietary)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

16. Other information, including date of preparation or last revision

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Version # **HMIS®** ratings Health: 2 Flammability: 2

Physical hazard: 0

References **ACGIH**

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available.

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).