

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture	Castin' Craft Transparent Dye (Red, Blue, Green, Amber, Yellow)
Registration number	-
Synonyms	None.
SDS number	00525
Product code	00525.
Issue date	22-March-2016
Version number	01
Revision date	-
Supersedes date	-

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Coloring agent for Casting Resin, Castin Epoxy, and Epoxy Resin.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name	Environmental Technology, Inc.
Address	300 S. Bay Depot Road Fields Landing CA 95537, USA.
Telephone number	001 707-443-9323
E-mail	eti@eti-usa.com
Contact person	Technical Director

Supplier

Company name	
Address	

Telephone number

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary Occupational exposure to the substance or mixture may cause adverse health effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains:	(2-methoxymethylethoxy)propanol; Dipropylene glycol, monomethyl ether, Acetone, Copper
Hazard pictograms	None.
Signal word	None.
Hazard statements	The mixture does not meet the criteria for classification.

Precautionary statements

Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.

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

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Acetone	<5%	67-64-1 200-662-2	-	606-001-00-8	#
Classification:	Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336				
Copper	<0.5%	7440-50-8 231-159-6	-	-	
Classification:	Aquatic Acute 1;H400, Aquatic Chronic 1;H410				

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The full text for all H-statements is displayed in Section 16.

SECTION 4: First aid measures

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.

4.1. Description of 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	Wash off with soap and water. Get medical attention if irritation develops or persists.
Eye contact	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.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not induce vomiting. Get medical attention if symptoms occur.

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

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Vapours are heavier than air and may spread near ground to sources of ignition.

5.1. Extinguishing media

Suitable extinguishing media	Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide (CO ₂) to extinguish flames.
Unsuitable extinguishing media	None known.

5.2. Special hazards arising from the substance or mixture The product is combustible, and heating may generate vapours which may form explosive vapour/air mixtures. Take precautionary measures against static discharge. Static charges generated by emptying package in or near flammable vapour may cause flash fire. During fire, gases hazardous to health may be formed. Carbon oxides. Hydrocarbons.

5.3. Advice for firefighters

Special protective equipment 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.
Special fire fighting procedures	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Vapours 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 Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel 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 vapours 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.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

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

6.3. Methods and material 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 vapours or divert vapour 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.

6.4. Reference to other sections For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Keep away from open flames, hot surfaces and sources of ignition. Avoid breathing mist or vapour. 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 vapours which may form explosive vapour/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.

7.2. Conditions for safe storage, including any incompatibilities 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.

7.3. Specific end use(s) Coloring agent for Casting Resin, Castin Epoxy, and Epoxy Resin.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
(2-methoxymethylethoxy)propanol; Dipropylene glycol, monomethyl ether (CAS Proprietary)	TWA	308 mg/m ³	
Acetone (CAS 67-64-1)	STEL	50 ppm 3620 mg/m ³	
	TWA	1500 ppm 1210 mg/m ³	
Copper (CAS 7440-50-8)	STEL	500 ppm 2 mg/m ³	Inhalable dusts and mists.
	TWA	1 mg/m ³ 0.2 mg/m ³	Inhalable dusts and mists. Fume.

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
(2-methoxymethylethoxy)propanol; Dipropylene glycol, monomethyl ether (CAS Proprietary)	TWA	308 mg/m ³
Acetone (CAS 67-64-1)	TWA	50 ppm 1210 mg/m ³
		500 ppm

Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Not available.
Derived no-effect level (DNEL)	Not available.
Predicted no effect concentrations (PNECs)	Not available.
Exposure guidelines	
UK EH40 WEL: Skin designation	
(2-methoxymethylethoxy)propanol; Dipropylene glycol, monomethyl ether (CAS Proprietary)	Can be absorbed through the skin.

8.2. Exposure controls

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 minimise the risk of inhalation of vapours. Provide easy access to water supply and eye wash facilities. Use explosion-proof equipment.

Individual protection measures, such as personal protective equipment

General information	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Wear safety glasses with side shields.
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.
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.
Hygiene measures	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.
Environmental exposure controls	Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Various.
Odour	Ether-like.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	190 °C (374 °F)
Flash point	85.0 °C (185.0 °F) Closed cup
Evaporation rate	Not available.
Flammability (solid, gas)	Combustible.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	5.11
Relative density	Not available.
Solubility(ies)	Soluble

Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.
9.2. Other information	No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	Not available.
10.2. Chemical stability	Stable at normal conditions.
10.3. Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Elevated temperatures. Contact with incompatible materials. Electrostatic Discharge.
10.5. Incompatible materials	Acid. Aluminium. Strong bases. Strong oxidising agents.
10.6. Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation	Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause respiratory irritation.
Skin contact	May cause redness and pain. Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Eye contact	Causes eye irritation.
Ingestion	Ingestion may cause irritation and malaise.

Symptoms Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Mild eye irritation. May cause respiratory irritation.

11.1. Information on toxicological effects

Acute toxicity Ingestion may cause irritation and malaise. Vapours may cause drowsiness and dizziness.

Components	Species	Test results
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(2-methoxymethylethoxy)propanol; Dipropylene glycol, monomethyl ether (CAS Proprietary)

Acute

Dermal

LD50	Rabbit	9.5 g/kg
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Inhalation

LC50	Rat	> 500 ppm, 7 Hours
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LD50	Rat	500 ppm, 7 hours
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Oral

LD50	Rat	5.35 g/kg
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Acetone (CAS 67-64-1)

Acute

Dermal

LD50	Rabbit	20 ml/kg
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Inhalation

LC50	Rat	50 mg/l, 8 Hours
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Oral

LD50	Rat	5800 mg/kg
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Skin corrosion/irritation Prolonged contact may cause dryness of the skin.

Serious eye damage/eye irritation Causes eye irritation.

Respiratory sensitisation Based on available data, the classification criteria are not met.

Skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Mixture versus substance information	No information available.
Other information	Prolonged inhalation may be harmful. May affect the nervous system and cause headache, nausea, vomiting, and narcosis.

SECTION 12: Ecological information

12.1. Toxicity The 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
(2-methoxymethylethoxy)propanol; Dipropylene glycol, monomethyl ether		
Aquatic		
<i>Acute</i>		
Fish	LC50	Pimephales promelas 1919 mg/l, 48 hours
Acetone (CAS 67-64-1)		
Aquatic		
Fish	LC50	Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours
Copper (CAS 7440-50-8)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 0.0318 mg/l, 48 hours
Fish	LC50	Chinook salmon (Oncorhynchus tshawytscha) 0.02 mg/l, 96 hours

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

12.3. Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient n-octanol/water (log Kow)
Acetone (CAS 67-64-1) -0.24

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

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

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. 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 interaction with other factors such as meteorology.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	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.
EU waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code This substance/mixture is not intended to be transported in bulk.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Acetone (CAS 67-64-1)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Acetone (CAS 67-64-1)

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Acetone (CAS 67-64-1)

Directive 94/33/EC on the protection of young people at work, as amended

Not listed.

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Training information

Follow training instructions when handling this material.

Disclaimer

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