SAFETY DATA SHEET

1. Identification

Product identifier Castin' Craft Catalyst

Other means of identification

SDS number 7806910

Product code 46361, 46388, 56362, 34016, 34032, 34128, 46392, MICHAELS SKUs: 558155, 10415456

Recommended use Casting Resin Catalyst Agent None known.

Recommended restrictions

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 hazards Organic peroxides Type D

Health hazards Acute toxicity, oral Category 4

Skin corrosion/irritation Category 1
Serious eye damage/eye irritation Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Heating may cause a fire. Harmful if swallowed. Causes severe skin burns and eye damage.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep/Store away from

clothing and other combustible materials. Keep only in original container. Do not breathe mist or vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wear

protective gloves/protective clothing/eye protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for

breathing. Immediately call a poison center/doctor. Specific treatment (see this label).

Storage Store locked up. Store at temperatures not exceeding 25°C / 77°F. Keep cool. Store away from

other materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

Not applicable.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Benzenedicarboxylic Acid	Proprietary	10-50

Castin' Craft Catalyst SDS US

Methyl Ethyl Ketone Peroxide	Proprietary	5-40
Butanone Compound	Proprietary	<10
Diluent	Proprietary	< 10

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

Remove victim to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Get medical attention if symptoms occur.

Skin contact

Immediately flush with plenty of water for at least 15 minutes. Take off immediately all contaminated clothing. Get medical attention immediately. Wash contaminated clothing before reuse

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion

media

Rinse mouth. Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions. Call a poison control center immediately.

Most important symptoms/effects, acute and delayed

Contact with this material will cause burns to the skin, eyes and mucous membranes. May have a corrosive effect on the digestive canal.

Indication of immediate medical attention and special treatment needed

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

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing Use extinguishing agent suitable for type of surrounding fire.

Water. Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contains an organic peroxide. Strong oxidizer - contact with other material may cause fire. Heat may cause the containers to explode. During fire, gases hazardous to health may be formed. The heat of decomposition of the peroxides adds to the heat of the fire. Dry chemical fire extinguishing agent may catalyze the decomposition.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions
Specific methods

Move containers from fire area if you can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Cool containers exposed to flames with water until well after the fire is out.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this safety data sheet. Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not breathe mist or vapor. Do not get in eyes, on skin, on clothing. Keep out of low areas. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

This product is miscible in water. Refer to attached safety data sheets and/or instructions for use. Ventilate area. Extinguish or remove all ignition sources. Remove or isolate flammable and combustible materials. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. 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.

Never return spills to original containers for re-use. Collect and dispose of spillage as indicated in section 13 of the SDS.

Never return spills in original containers for re-use.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution. Avoid discharge into storm drains, water courses or onto the ground.

Castin' Craft Catalyst SDS US

7. Handling and storage

Precautions for safe handling

Provide adequate ventilation. Avoid breathing mist or vapor. Do not get in eyes, on skin, on clothing. Keep away from all ignition sources including heat, sparks and flame. When using spray equipment, never spray raw MEKP into curing or in to raw resin of flues. Keep out of reach of children. Wear appropriate personal protective equipment (See Section 8). Wash hands thoroughly after handling. Observe good industrial hygiene practices. Do not handle roughly. Avoid shock, dropping and dragging etc.

Conditions for safe storage, including any incompatibilities

Avoid contact with combustible materials (hay, grain, diesel, etc.). Keep out of the reach of children. Keep only in the original container. 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. Store locked up. Keep away from heat, sparks and open flame. Protect from direct sunlight.

0.2 ppm

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	
Benzenedicarboxylic Acid Derrivative (CAS Proprietary)	PEL	5 mg/m3	
Butanone Compound (CAS Proprietary)	PEL	590 mg/m3	
		200 ppm	
Diluent (CAS Proprietary)	PEL	1.4 mg/m3	
		1 ppm	
US. ACGIH Threshold Limit Values	5		
Components	Туре	Value	
Benzenedicarboxylic Acid Derrivative (CAS Proprietary)	TWA	5 mg/m3	
Butanone Compound (CAS Proprietary)	STEL	300 ppm	
•	TWA	200 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
Benzenedicarboxylic Acid Derrivative (CAS Proprietary)	TWA	5 mg/m3	
Butanone Compound (CAS Proprietary)	STEL	885 mg/m3	
		300 ppm	
	TWA	590 mg/m3	
		200 ppm	
Diluent (CAS Proprietary)	TWA	1.4 mg/m3	
· · · · · · · · · · · · · · · · · · ·		1 ppm	
Methyl Ethyl Ketone Peroxide (CAS Proprietary)	Ceiling	1.5 mg/m3	
		0.2 ppm	

Ceiling

Biological limit values

Methyl Ethyl Ketone

Peroxide (CAS Proprietary)

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Butanone Compound	I (CAS 2 mg/l	MEK	Urine	*
Proprietary)				

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

Exposure guidelines

Use personal protective equipment as required. Keep working clothes separately.

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. Eye wash facilities and emergency shower must be available when handling this product. Provide adequate ventilation and minimize the risk of inhalation of vapors.

Castin' Craft Catalyst SDS US

Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Chemical resistant gloves.

Wear appropriate chemical resistant clothing. The most suitable glove must be chosen in Other

consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Wear appropriate chemical resistant clothing to prevent any possibility of skin contact.

In case of insufficient ventilation, wear suitable respiratory equipment. When workers are facing Respiratory protection

concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or 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. Wash at the end of each work

shift and before eating, smoking and using the toilet.

9. Physical and chemical properties

Appearance Water white liquid.

Physical state Liquid. Liquid. **Form** Color Clear. Odor Slight.

Odor threshold Not available. Not available. рΗ Melting point/freezing point Not available. Not available. Initial boiling point and boiling

range

200.0 °F (93.3 °C) Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

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

> 1 Vapor density Relative density 1.1

Solubility(ies)

Solubility (water) Slightly soluble in water.

Not available. Partition coefficient

(n-octanol/water)

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

Other information

3.7 % VOC (Weight %)

10. Stability and reactivity

Reactivity May form peroxides. Read and follow manufacturer's recommendations.

Stable under recommended storage and use conditions. Please read and follow all instructions. Chemical stability

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials. Heat, sparks,

flames, elevated temperatures. Protect against direct sunlight.

Nitrates. Strong oxidizers, strong acids, and strong bases. Reducing agents. Sulfur compounds. Incompatible materials

Metal salts.

Castin' Craft Catalyst SDS US **Hazardous decomposition**

When heated to decomposition the product emits acrid smoke and irritating fumes.

products

11. Toxicological information

Information on likely routes of exposure

Under normal conditions of intended use, this material does not pose a risk to health. May cause Ingestion

digestive tract burns. Harmful if swallowed.

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes skin burns.

Causes serious eye damage. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics Contact with this material will cause burns to the skin, eyes and mucous membranes. May have a

corrosive effect on the digestive canal.

Information on toxicological effects

Acute toxicity Harmful if swallowed. May cause digestive tract burns.

Components **Species Test Results** Benzenedicarboxylic Acid Derrivative (CAS Proprietary)

Acute

Dermal

LD50 Rat 38000 mg/kg

Oral

LD50 Rat 2400 mg/kg

Butanone Compound (CAS Proprietary)

Acute

Dermal

LD50 Rabbit > 8000 mg/kg

Inhalation

LC50 Rat 11700 mg/l, 4 Hours

Oral

LD50 Rat 2300 - 3500 mg/kg

Methyl Ethyl Ketone Peroxide (CAS Proprietary)

Acute

Inhalation

Rat LC50 200 mg/l, 4 Hours

Oral

LD50 Rat 6.86 ml/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

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

Not classified as a sensitizer. Skin sensitization

Based on available data, the classification criteria are not met. Germ cell mutagenicity

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Diluent (CAS Proprietary) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not available.

Castin' Craft Catalyst SDS US

12. Ecological information

Ecotoxicity Expected to be harmful to aquatic organisms.

 Components
 Species
 Test Results

 Benzenedicarboxylic Acid Derrivative (CAS Proprietary)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 45.9 mg/l, 48 hours
Fish LC50 Sheepshead minnow (Cyprinodon 29 mg/l, 96 hours

variegatus)

Butanone Compound (CAS Proprietary)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 4025 - 6440 mg/l, 48 hours

Fish LC50 Sheepshead minnow (Cyprinodon > 400 mg/l, 96 hours

variegatus)

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

Bioaccumulative potentialNo data available on bioaccumulation.

Partition coefficient n-octanol / water (log Kow)

Benzenedicarboxylic Acid Derrivative (CAS Proprietary) 1.6 Butanone Compound (CAS Proprietary) 0.29

Mobility in soil No data available.

Other adverse effects None known.

13. Disposal considerations

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

Regulations.

Local disposal regulations Dispose 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

Benzenedicarboxylic Acid Derrivative (CAS Proprietary)

Butanone Compound (CAS Proprietary)

Methyl Ethyl Ketone Peroxide (CAS Proprietary)

U102

U159

U160

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

UN number UN3105

UN proper shipping name

Transport hazard class(es)

Organic peroxide type D, liquid (Methyl Ethyl Ketone Peroxide <40%)

Class 5.2 Subsidiary risk -Packing group II

Environmental hazards

Marine pollutant No

Special precautions for user Not available.

Packaging exceptions 152
Packaging non bulk 225
Packaging bulk None

IATA

UN number UN3105

UN proper shipping name Organic peroxide type D, liquid (Methyl Ethyl Ketone Peroxide <40%)

Transport hazard class(es)

Class 5.2 Subsidiary risk -

Packing group Not applicable.

Environmental hazards No **ERG Code** 5L

Castin' Craft Catalyst SDS US

904012 Version #: 01 Revision date: - Issue date: 17-April-2014

^{*} Estimates for product may be based on additional component data not shown.

Special precautions for user Not available.

IMDG

UN3105 UN number

ORGANIC PEROXIDE TYPE D, LIQUID (Methyl Ethyl Ketone Peroxide <40%) **UN proper shipping name**

Transport hazard class(es)

Class 5.2 Subsidiary risk

Not applicable. **Packing group**

Environmental hazards

Marine pollutant Nο F-J, S-R **EmS** Special precautions for user Not available. Transport in bulk according to Not available.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

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

Standard, 29 CFR 1910.1200.

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

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Benzenedicarboxylic Acid Derrivative (CAS Proprietary) LISTED Butanone Compound (CAS Proprietary) LISTED Methyl Ethyl Ketone Peroxide (CAS Proprietary) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

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

SARA 302 Extremely hazardous substance

Chemical name CAS number **Threshold Threshold Threshold** Reportable planning quantity planning quantity, planning quantity, quantity lower value upper value

Diluent 1000 1000 lbs Proprietary Yes

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name CAS number % by wt. Benzenedicarboxylic Acid Derrivative Proprietary 10-50

Other federal regulations

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

Benzenedicarboxylic Acid Derrivative (CAS Proprietary)

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**

Butanone Compound (CAS Proprietary)

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

Butanone Compound (CAS Proprietary) 35 % weight/volumn

DEA Exempt Chemical Mixtures Code Number

Butanone Compound (CAS Proprietary) 6714

US state regulations

US. Massachusetts RTK - Substance List

Benzenedicarboxylic Acid Derrivative (CAS Proprietary)

Castin' Craft Catalyst SDS US

904012 Version #: 01 Revision date: -Issue date: 17-April-2014 Butanone Compound (CAS Proprietary)

Diluent (CAS Proprietary)

Methyl Ethyl Ketone Peroxide (CAS Proprietary)

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

Benzenedicarboxylic Acid Derrivative (CAS Proprietary)

Butanone Compound (CAS Proprietary)

Diluent (CAS Proprietary)

Methyl Ethyl Ketone Peroxide (CAS Proprietary)

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

Benzenedicarboxylic Acid Derrivative (CAS Proprietary)

Butanone Compound (CAS Proprietary)

Diluent (CAS Proprietary)

Methyl Ethyl Ketone Peroxide (CAS Proprietary)

US. Rhode Island RTK

Benzenedicarboxylic Acid Derrivative (CAS Proprietary)

Butanone Compound (CAS Proprietary)

Diluent (CAS Proprietary)

Methyl Ethyl Ketone Peroxide (CAS Proprietary)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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

Australian Inventory of Chemical Substances (AICS)

Not listed.

International Inventories

Australia

Country(s) or region

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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

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

Toxic Substances Control Act (TSCA) Inventory

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

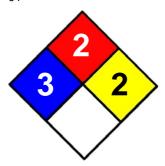
Inventory name

Issue date 17-April-2014

Revision date - Version # 01

United States & Puerto Rico

NFPA Ratings



Castin' Craft Catalyst SDS US

904012 Version #: 01 Revision date: - Issue date: 17-April-2014

On inventory (yes/no)*

Yes

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).

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.

Castin' Craft Catalyst SDS US