

# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	<b>Castin' Craft Catalyst</b>		
<b>Other means of identification</b>			
<b>SDS number</b>	7806910		
<b>Product code</b>	46361, 46388, 56362, 34016, 34032, 34128, 46392, MICHAELS SKUs: 558155, 10415456		
<b>Recommended use</b>	Casting Resin Catalyst Agent		
<b>Recommended restrictions</b>	None known.		
<b>Manufacturer/Importer/Supplier/Distributor information</b>			
<b>Company name</b>	Environmental Technology, Inc.		
<b>Address</b>	300 S. Bay Depot Road Fields Landing CA 95537		
<b>Telephone</b>	Telephone number	707-443-9323	
<b>E-mail</b>	mail@eti-usa.com		
<b>Contact person</b>	Technical Director		
<b>Emergency phone number</b>	CHEMTREC	800-424-9300	

## 2. Hazard(s) identification

<b>Physical hazards</b>	Organic peroxides	Type D
<b>Health hazards</b>	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
<b>OSHA defined hazards</b>	Not classified.	

### Label elements



<b>Signal word</b>	Danger
<b>Hazard statement</b>	Heating may cause a fire. Harmful if swallowed. Causes severe skin burns and eye damage.
<b>Precautionary statement</b>	
<b>Prevention</b>	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.
<b>Response</b>	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).
<b>Storage</b>	Store locked up. Store at temperatures not exceeding 25°C / 77°F. Keep cool. Store away from other materials.
<b>Disposal</b>	Dispose of waste and residues in accordance with local authority requirements.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	Not applicable.

## 3. Composition/information on ingredients

### Mixtures

<b>Chemical name</b>	<b>CAS number</b>	<b>%</b>
Benzenedicarboxylic Acid Derrivative	Proprietary	10-50

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

<b>Inhalation</b>	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.
<b>Skin contact</b>	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.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Ingestion</b>	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.
<b>Most important symptoms/effects, acute and delayed</b>	Contact with this material will cause burns to the skin, eyes and mucous membranes. May have a corrosive effect on the digestive canal.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Use extinguishing agent suitable for type of surrounding fire.
<b>Unsuitable extinguishing media</b>	Water. Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	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.
<b>Special protective equipment and precautions for firefighters</b>	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.
<b>Fire-fighting equipment/instructions</b>	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.
<b>Specific methods</b>	Cool containers exposed to flames with water until well after the fire is out.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	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.
<b>Methods and materials for containment and cleaning up</b>	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.
<b>Environmental precautions</b>	Never return spills in original containers for re-use. 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.

## 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.

## 8. Exposure controls/personal protection

### Occupational exposure limits

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

Components	Type	Value
Benzenedicarboxylic Acid Derrivative (CAS Proprietary)	PEL	5 mg/m3
Butanone Compound (CAS Proprietary)	PEL	590 mg/m3
Diluent (CAS Proprietary)	PEL	200 ppm 1.4 mg/m3 1 ppm

#### US. ACGIH Threshold Limit Values

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

#### US. NIOSH: Pocket Guide to Chemical Hazards

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

### Biological limit values

#### ACGIH Biological Exposure Indices

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

\* - 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.

## Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Chemical resistant gloves.
<b>Other</b>	Wear appropriate chemical resistant clothing. The most suitable glove must be chosen in 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.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	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

<b>Appearance</b>	Water white liquid.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Clear.
<b>Odor</b>	Slight.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	200.0 °F (93.3 °C)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	> 1
<b>Relative density</b>	1.1
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Slightly soluble in water.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>VOC (Weight %)</b>	3.7 %

## 10. Stability and reactivity

<b>Reactivity</b>	May form peroxides. Read and follow manufacturer's recommendations.
<b>Chemical stability</b>	Stable under recommended storage and use conditions. Please read and follow all instructions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Avoid temperatures exceeding the flash point. Contact with incompatible materials. Heat, sparks, flames, elevated temperatures. Protect against direct sunlight.
<b>Incompatible materials</b>	Nitrates. Strong oxidizers, strong acids, and strong bases. Reducing agents. Sulfur compounds. Metal salts.

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

## 11. Toxicological information

### Information on likely routes of exposure

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

**Eye contact** Causes serious eye damage.

**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
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Benzenedicarboxylic Acid Derrivative (CAS Proprietary)

**Acute**

*Dermal*

LD50	Rat	38000 mg/kg
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*Oral*

LD50	Rat	2400 mg/kg
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Butanone Compound (CAS Proprietary)

**Acute**

*Dermal*

LD50	Rabbit	> 8000 mg/kg
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*Inhalation*

LC50	Rat	11700 mg/l, 4 Hours
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*Oral*

LD50	Rat	2300 - 3500 mg/kg
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Methyl Ethyl Ketone Peroxide (CAS Proprietary)

**Acute**

*Inhalation*

LC50	Rat	200 mg/l, 4 Hours
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*Oral*

LD50	Rat	6.86 ml/kg
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\* 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.

**Skin sensitization** Not classified as a sensitizer.

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

**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.

## 12. Ecological information

**Ecotoxicity** Expected to be harmful to aquatic organisms.

Components		Species	Test Results
Benzenedicarboxylic Acid Derrivative (CAS Proprietary)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	45.9 mg/l, 48 hours
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	29 mg/l, 96 hours
Butanone Compound (CAS Proprietary)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	4025 - 6440 mg/l, 48 hours
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	> 400 mg/l, 96 hours

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

**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)**

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)	U102
Butanone Compound (CAS Proprietary)	U159
Methyl Ethyl Ketone Peroxide (CAS Proprietary)	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

<b>UN number</b>	UN3105
<b>UN proper shipping name</b>	Organic peroxide type D, liquid (Methyl Ethyl Ketone Peroxide <40%)
<b>Transport hazard class(es)</b>	
<b>Class</b>	5.2
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No
<b>Special precautions for user</b>	Not available.
<b>Packaging exceptions</b>	152
<b>Packaging non bulk</b>	225
<b>Packaging bulk</b>	None

### IATA

<b>UN number</b>	UN3105
<b>UN proper shipping name</b>	Organic peroxide type D, liquid (Methyl Ethyl Ketone Peroxide <40%)
<b>Transport hazard class(es)</b>	
<b>Class</b>	5.2
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	No
<b>ERG Code</b>	5L

Special precautions for user Not available.

#### IMDG

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  
Marine pollutant No  
EmS F-J, S-R  
Special precautions for user Not available.  
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

### 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)

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

#### SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Diluent	Proprietary	1000	1000 lbs		

SARA 311/312 Hazardous chemical Yes

#### 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 (SDWA) Not regulated.

##### 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) 6714

##### 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)

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**

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)	Yes
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

\*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).

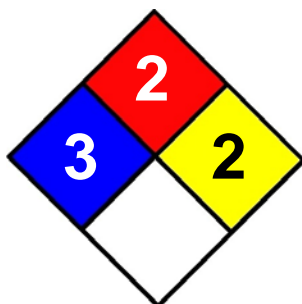
**16. Other information, including date of preparation or last revision**

Issue date 17-April-2016

Revision date -

Version # 01

**NFPA Ratings**





**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.