



# Composite Resource MEKP Catalyst

## Safety Data Sheet CR19M

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Composite Resource MEKP Catalyst  
CAS No : Mixture  
Product code : CR19MC1, CR19MC2 and CR19MC8  
Other means of identification : DISTRIBUTED BY REVCHEM COMPOSITES, INC.

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

Use of the substance/mixture : Catalyst

#### 1.3. Details of the supplier of the safety data sheet

Composite Resources is supplied by Revchem Composites. 2720 South Willow Ave., Bloomington, CA 92316 1-800-281-4975

#### 1.4. Emergency telephone number

Emergency number : 800.424.9300  
CHEMTREC: 1-800-424-9300

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Flam. Liq. 2 H225  
Acute Tox. 4 (Oral) H302  
Acute Tox. 4 (Inhalation:dust,mist) H332

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS02

GHS07

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H225 - Highly flammable liquid and vapour  
H302+H332 - Harmful if swallowed or if inhaled

Precautionary statements (GHS-US) :

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P233 - Keep container tightly closed  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical/ventilating/lighting/... equipment  
P242 - Use only non-sparking tools  
P243 - Take precautionary measures against static discharge  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 - Wash ... thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P280 - Wear protective clothing  
P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing  
P312 - Call a POISON CENTER/doctor/physician if you feel unwell  
P330 - If swallowed, rinse mouth  
P370+P378 - In case of fire: Use ... for extinction  
P403+P235 - Store in a well-ventilated place. Keep cool  
P501 - Dispose of contents/container to ...

#### 2.3. Other hazards

No additional information available

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### 2.4. Unknown acute toxicity (GHS-US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

Full text of H-phrases: see section 16

### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
dimethyl phthalate	(CAS No) 131-11-3	35 - 60	Not classified
methylethyl ketone peroxide	(CAS No) 1338-23-4	32 - 35	Acute Tox. 4 (Oral), H302
phlegmatizer	(CAS No) PROPRIETARY	6 - 26	Not classified
methyl ethyl ketone	(CAS No) 78-93-3	0 - 2	Flam. Liq. 2, H225
hydrogen peroxide, aqueous solutions, 8%<=conc<20%	(CAS No) 7722-84-1	< 1	Acute Tox. 4 (Oral), H302
WATER	(CAS No) 7732-18-5	<= 1	Not classified

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

### 4.3. Indication of any immediate medical attention and special treatment needed

Until victim can be cared for by specialized staff:

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Heating increases the fire hazard. Heating may cause a fire. Heating may cause a fire or explosion. Insufficient data available on direct fire hazard (flashpoint > 100°C). Self-heating in large quantities; may catch fire. Temperature above flashpoint: higher fire/explosion hazard. Highly flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.

### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.
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#### 6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.  
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No naked lights. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.  
Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/... equipment.  
Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep in fireproof place. Keep container tightly closed.  
Incompatible products : Strong bases. strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

methylethyl ketone peroxide (1338-23-4)		
USA ACGIH	ACGIH Ceiling (ppm)	0.2 ppm
dimethyl phthalate (131-11-3)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
hydrogen peroxide, aqueous solutions, 8%≤conc<20% (7722-84-1)		
USA ACGIH	ACGIH TWA (ppm)	1 ppm
USA ACGIH	ACGIH STEL (ppm)	1 ppm
methyl ethyl ketone (78-93-3)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	300 ppm

### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.  
Hand protection : Wear protective gloves.  
Eye protection : Chemical goggles or safety glasses.  
Respiratory protection : Wear approved mask.  
Other information : When using, do not eat, drink or smoke.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

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Appearance	: Water. White.
Colour	: Clear
Odour	: Slight
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 93 °C (>200 °F)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: > 1
Solubility	: Water: Slightly Soluble in Water
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

SADT : > 60 °C (140 Deg F)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions. Not established. Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Contamination. Direct sunlight. Open flames. Prolonged storage above 100°F (38°C). Storage above SADT. Storage near flammable or combustible materials.

### 10.5. Incompatible materials

Dimethylaniline, cobalt naphthenate and other promoters, promoted resins, accelerators, oxidizing and reducing agents, strong acids, bases, metals, metal alloys and salts, sulfur compounds, amines or any hot material.

### 10.6. Hazardous decomposition products

Decomposition products are flammable. Acrid smoke and irritating fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Harmful if inhaled.

methylethyl ketone peroxide (1338-23-4)	
LD50 oral rat	484 mg/kg (Rat)
LC50 inhalation rat (mg/l)	1.5 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	200 ppm/4h (Rat)

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<b>dimethyl phthalate (131-11-3)</b>	
LD50 oral rat	6800 mg/kg (Rat)
LD50 dermal rat	> 4800 mg/kg (Rat)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit)

<b>hydrogen peroxide, aqueous solutions, 8%≤conc&lt;20% (7722-84-1)</b>	
LD50 oral rat	1518 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)

<b>methyl ethyl ketone (78-93-3)</b>	
LD50 oral rat	2737 mg/kg (2054 mg/kg; 2328 mg/kg; Rat; Rat; Rat)
LD50 dermal rabbit	6480 mg/kg (>10; Rabbit; Rabbit; Experimental value,>10; Rabbit; Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	34 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	11300 ppm/4h (Rat)
ATE CLP (oral)	2737.000 mg/kg bodyweight
ATE CLP (dermal)	6480.000 mg/kg bodyweight
ATE CLP (gases)	11300.000 ppmv/4h
ATE CLP (vapours)	34.000 mg/l/4h
ATE CLP (dust,mist)	34.000 mg/l/4h

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified

<b>hydrogen peroxide, aqueous solutions, 8%≤conc&lt;20% (7722-84-1)</b>	
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified	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	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified	Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed. Harmful if inhaled.	
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.	
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.	
Likely routes of exposure	: Inhalation	

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>dimethyl phthalate (131-11-3)</b>	
LC50 fishes 1	39 ppm (96 h; Pimephales promelas)
EC50 Daphnia 1	33 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	42.7 mg/l (96 h; Selenastrum capricornutum; Growth)
LC50 fish 2	56 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	150 mg/l (24 h; Daphnia magna)
EC50 other aquatic organisms 2	204 mg/l (72 h; Scenedesmus subspicatus)
Threshold limit algae 1	125 ppm (96 h; Pyrrophyta)

<b>methyl ethyl ketone (78-93-3)</b>	
LC50 fishes 1	1690 mg/l (96 h; Lepomis macrochirus; LETHAL)
EC50 Daphnia 1	308 mg/l (48 h; Daphnia magna; LOCOMOTOR EFFECT)

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<b>methyl ethyl ketone (78-93-3)</b>	
LC50 fish 2	2990 mg/l (96 h; Pimephales promelas)
TLM fish 1	5600 mg/l (96 h; Gambusia affinis)
TLM fish 2	1690 mg/l (96 h; Lepomis macrochirus)
TLM other aquatic organisms 1	> 1000 ppm (96 h)
Threshold limit algae 1	110 mg/l (168 h; Microcystis aeruginosa)
Threshold limit algae 2	4300 mg/l (192 h; Scenedesmus quadricauda)

### 12.2. Persistence and degradability

<b>Composite Resource MEKP-CATALYST (Mixture)</b>	
Persistence and degradability	Not established.

<b>methylethyl ketone peroxide (1338-23-4)</b>	
Persistence and degradability	Readily biodegradable in water.
ThOD	1.816 g O <sup>2</sup> /g substance

<b>dimethyl phthalate (131-11-3)</b>	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	1.12 g O <sup>2</sup> /g substance
Chemical oxygen demand (COD)	1.7 g O <sup>2</sup> /g substance
ThOD	1.73 g O <sup>2</sup> /g substance
BOD (% of ThOD)	0.6473 % ThOD

<b>hydrogen peroxide, aqueous solutions, 8%&lt;=conc&lt;20% (7722-84-1)</b>	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available. Photolysis in the air.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

<b>methyl ethyl ketone (78-93-3)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Not established.
Biochemical oxygen demand (BOD)	1.92 g O <sup>2</sup> /g substance
Chemical oxygen demand (COD)	2.31 g O <sup>2</sup> /g substance
ThOD	2.44 g O <sup>2</sup> /g substance
BOD (% of ThOD)	0.79 % ThOD

<b>PHLEGMATIZER (PROPRIETARY)</b>	
Persistence and degradability	Not established.

<b>WATER (7732-18-5)</b>	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

<b>Composite Resource MEKP-CATALYST (Mixture)</b>	
Bioaccumulative potential	Not established.

<b>methylethyl ketone peroxide (1338-23-4)</b>	
BCF other aquatic organisms 1	13 (Estimated value)
Log Pow	0.914 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

<b>dimethyl phthalate (131-11-3)</b>	
BCF fish 1	4.7 - 6 (24 h; Cyprinodon variegatus)
BCF fish 2	57 (Lepomis macrochirus)
BCF other aquatic organisms 1	4.7 (24 h; Crangon crangon)
BCF other aquatic organisms 2	3.1 - 6.3 (24 h; Penaeus sp.)
Log Pow	1.5 - 2.12
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

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<b>hydrogen peroxide, aqueous solutions, 8%≤conc&lt;20% (7722-84-1)</b>	
Log Pow	-1.36
Bioaccumulative potential	Bioaccumulation: not applicable.
<b>methyl ethyl ketone (78-93-3)</b>	
Log Pow	0.3 (Experimental value; 40 °C, Experimental value; 40 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4). Not established.
<b>PHLEGMATIZER (PROPRIETARY)</b>	
Bioaccumulative potential	Not established.
<b>WATER (7732-18-5)</b>	
Bioaccumulative potential	Not established.

### 12.4. Mobility in soil

<b>methyl ethyl ketone (78-93-3)</b>	
Surface tension	0.024 N/m (20 °C)
Ecology - soil	Slightly harmful to plants.

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to ...

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT

UN-No.(DOT) : 3105

DOT Proper Shipping Name : ORGANIC PEROXIDE TYPE D, LIQUID

Department of Transportation (DOT) Hazard Classes : 5.2 - Class 5.2 - Organic Peroxide 49 CFR 173.128

Hazard labels (DOT) : 5.2 - Organic peroxide



Packing group (DOT) : II - Medium Danger

### Additional information

Other information : No supplementary information available.

### ADR

Transport document description : UN 3105 ORGANIC PEROXIDE TYPE D, LIQUID, 5.2, II

Packing group (ADR) : II

Class (ADR) : 5.2 - Organic peroxides

### Transport by sea

UN-No. (IMDG) : 3105

Proper Shipping Name (IMDG) : ORGANIC PEROXIDE TYPE D, LIQUID

Class (IMDG) : 5.2 - Organic peroxides

Packing group (IMDG) : II - substances presenting medium danger

### Air transport

UN-No.(IATA) : 3105

Proper Shipping Name (IATA) : ORGANIC PEROXIDE TYPE D, LIQUID

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Class (IATA) : 5.2 - Organic Peroxides  
Packing group (IATA) : II - Medium Danger

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Percent</u>
Dimethyl Phthalate	131-11-3	35-60
Methyl Ethyl Ketone	78-93-3	0-2
<b>Reportable Quantity</b>		
2-Butanone Peroxide (MEKP)	10 lbs (4.54 kg)	
<b>Australian Inventory of Chemical Substances (AICS)</b> The ingredients in this product are listed in Australian AICS Inventory.		
<b>Canadian Domestic Substances List (DSL)</b> The ingredients in this product are listed in the Canadian DSL Inventory.		
<b>Chinese Inventory of Existing Chemical Substances Manufactured or Imported in China (IECSC)</b> The ingredients in this product are listed in Chinese IECSC Inventory.		
<b>European Inventory of Existing Commercial Chemical Substances (EINECS)</b> The ingredients in this product are listed in the European EINECS Inventory.		
<b>Japanese Existing and New Chemical Substances (ENCS)</b> The ingredients in this product are listed in the Japanese ENCS Inventory.		
<b>Korean Existing Chemicals List (ECL)</b> The ingredients in this product are listed in the Korean ECL Inventory.		
<b>US Toxic Substances Control Act (TSCA)</b> The ingredients in this product are listed in the US TSCA Inventory.		
<b>Status of Carcinogenicity</b> Not recognized as a carcinogen by the IARC, NTP or OSHA		

#### 15.2. International regulations

##### CANADA

No additional information available

##### EU-Regulations

No additional information available

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Unst. Expl. H200  
Eye Irrit. 2 H319  
STOT SE 3 H335

Full text of H-phrases: see section 16

##### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified



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### 15.2.2. National regulations

No additional information available

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H332	Harmful if inhaled

SDS US (GHS HazCom 2012)

*To the best of our knowledge this SDS is accurate. To the extent allowed by law, this statement is made in lieu of any other warranties, expressed or implied including but not limited to any implied warranty of merchantability or fitness for a particular purpose and is in lieu of any other obligations or liability on the part of Dura Technologies, Inc.*