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

## 1.1. Product identifier

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product form</td>
<td>Substance</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Substance name</td>
<td>VINYL METHYL KETONE, 95%</td>
</tr>
<tr>
<td>Product code</td>
<td>ENEV4620</td>
</tr>
<tr>
<td>Formula</td>
<td>C4H6O</td>
</tr>
<tr>
<td>Synonyms</td>
<td>ACETYL ETHYLENE; BUT-3-EN-2-ONE; 3-BUTEN-2-ONE; METHYLENE ACETONE; VINYL METHYL KETONE; 2-BUTENONE; BUTENONE</td>
</tr>
<tr>
<td>Chemical family</td>
<td>KETONE</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Use of the substance/mixture</th>
<th>Chemical intermediate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>For research and industrial use only</td>
</tr>
</tbody>
</table>

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

**GELEST, INC.**  
11 East Steel Road  
Morrisville, PA 19067  
USA  
T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST  
info@gelest.com - www.gelest.com

## 1.4. Emergency telephone number

<table>
<thead>
<tr>
<th>Emergency number</th>
<th>CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)</th>
</tr>
</thead>
</table>

# SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Classification</th>
<th>GHS-US</th>
<th>H225</th>
<th>H300</th>
<th>H330</th>
<th>H314</th>
<th>H310</th>
<th>H402</th>
<th>H402</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. (2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 2 (Oral)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 1 (Inhalation:vapour)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic Acute 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full text of H statements: see section 16

## 2.2. Label elements

### GHS-US labeling

| Hazard pictograms (GHS-US) | ![GHS02](Image), ![GHS05](Image), ![GHS06](Image) |

<table>
<thead>
<tr>
<th>Signal word (GHS-US)</th>
<th>Danger</th>
</tr>
</thead>
</table>
| Hazard statements (GHS-US)  | H225 - Highly flammable liquid and vapor  
H300+H330 - Fatal if swallowed or if inhaled  
H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H402 - Harmful to aquatic life |
| Precautionary statements (GHS-US) | P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P210 - Keep away from heat, open flames, sparks. - No smoking  
P240 - Ground/Bond container and receiving equipment  
P241 - Use explosion-proof electrical equipment  
P242 - Use only non-sparking tools  
P243 - Take precautionary measures against static discharge  
P260 - Do not breathe vapors  
P264 - Wash hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P284 - In case of inadequate ventilation wear respiratory protection |
VINYL METHYL KETONE, 95%
Safety Data Sheet

P301+P310 - If swallowed: Immediately call a doctor
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a doctor
P320 - Specific treatment is urgent (see first aid instructions on this label)
P363 - Wash contaminated clothing before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Keep in a cool place
P405 - Store locked up
P501 - Dispose of contents/container to licensed waste disposal facility

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS US)
No data available

SECTION 3: Composition/Information on ingredients

3.1. Substance

<table>
<thead>
<tr>
<th>Substance type</th>
<th>Name</th>
<th>CAS No</th>
<th>EC no</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mono-constituent</td>
<td>VINYL METHYL KETONE, 95%</td>
<td>78-94-4</td>
<td>201-160-6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl vinyl ketone</td>
<td>(CAS No) 78-94-4</td>
<td>95 - 100</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 2 (Oral), H300</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 1 (Inhalation: vapour), H330</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1B, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Carc. 2, H351</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1, H400</td>
</tr>
<tr>
<td>Hydroquinone</td>
<td>(CAS No) 123-31-9</td>
<td>&lt; 0.1</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mut. 2, H341</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Carc. 2, H351</td>
</tr>
</tbody>
</table>

3.2. Mixture
Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact: Wash with plenty of soap and water. Get immediate medical advice/attention.

First-aid measures after eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion: Never give anything by mouth to an unconscious person. Obtain emergency medical attention.

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

Symptoms/injuries: Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation: Fatal if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. May cause irritation to the respiratory tract.
Symptoms/injuries after skin contact: Causes (severe) skin burns.
Symptoms/injuries after eye contact: Causes serious eye damage.
Symptoms/injuries after ingestion: Fatal if swallowed. 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
No additional information available
SECTION 5: Firefighting measures

5.1. Extinguishing media
Unsuitable extinguishing media: Do not use straight streams.

5.2. Special hazards arising from the substance or mixture
Fire hazard: Highly flammable liquid and vapor. Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.
Explosion hazard: May form flammable/explosive vapor-air mixture.

5.3. Advice for firefighters
Firefighting instructions: Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures: Eliminate every possible source of ignition. Use special care to avoid static electric charges.
6.1.1. For non-emergency personnel
Protective equipment: Wear protective equipment as described in Section 8.
Emergency procedures: Evacuate unnecessary personnel.
6.1.2. For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

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
For containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal. Use only non-sparking tools.

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 vapors are flammable. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Precautions for safe handling: Avoid all eye and skin contact and do not breathe vapor and mist. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Use only non-sparking tools.
Hygiene measures: Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment.
Storage conditions: Keep container tightly closed. Store locked up. Keep in a cool place. Store in sealed containers below 5°C.
Incompatible materials: Oxidizing agent.
Storage area: Store in a well-ventilated place. Store away from heat.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Methyl vinyl ketone (78-94-4)
USA ACGIH ACGIH Ceiling (ppm) 0.2 ppm
VINYL METHYL KETONE, 95%
Safety Data Sheet

**Hydroquinone (123-31-9)**

<table>
<thead>
<tr>
<th></th>
<th>USA ACGIH</th>
<th>USA NIOSH</th>
<th>USA OSHA</th>
<th>USA IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH TWA</td>
<td>1 mg/m³</td>
<td>2 mg/m³</td>
<td>2 mg/m³</td>
<td>50 mg/m³</td>
</tr>
<tr>
<td>NIOSH REL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(ceiling)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(mg/m³)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**8.2. Exposure controls**

**Appropriate engineering controls**: Provide local exhaust or general room ventilation.

**Personal protective equipment**: Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**Hand protection**: Neoprene or nitrile rubber gloves.

**Eye protection**: Chemical goggles or face shield. Contact lenses should not be worn.

**Skin and body protection**: Wear suitable protective clothing.

**Respiratory protection**: In case of inadequate ventilation wear respiratory protection. NIOSH-certified organic vapor (black cartridge) respirator.

**SECTION 9: Physical and chemical properties**

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

- **Physical state**: Liquid
- **Appearance**: Clear liquid.
- **Molecular mass**: 70.09 g/mol
- **Color**: Straw.
- **Odor**: Acrid. Lachrymator.
- **Odor threshold**: No data available
- **Refractive index**: 1.411
- **pH**: No data available
- **Relative evaporation rate (butyl acetate=1)**: > 1
- **Melting point**: No data available
- **Freezing point**: < 0 °C
- **Boiling point**: 34 °C @ 120 mm Hg
- **Flash point**: -7 °C
- **Auto-ignition temperature**: 370 °C
- **Decomposition temperature**: No data available
- **Flammability (solid, gas)**: Highly flammable liquid and vapor
- **Vapor pressure**: 71 mm Hg @ 20°C
- **Relative vapor density at 20 °C**: > 1
- **Relative density**: 0.864
- **VOC content**: < 3 %
- **Solubility**: 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
- **Oxidizing properties**: No data available
- **爆炸 limits**: 2.1 - 15.6 vol % (lower; upper)

**9.2. Other information**

No additional information available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No additional information available

**10.2. Chemical stability**

Stable.

**10.3. Possibility of hazardous reactions**

No additional information available
10.4. **Conditions to avoid**

10.5. **Incompatible materials**
Oxidizing agent.

10.6. **Hazardous decomposition products**
Organic acid vapors.

### SECTION 11: Toxicological information

11.1. **Information on toxicological effects**

#### Acute toxicity

<table>
<thead>
<tr>
<th>VINYL METHYL KETONE, 95% (78-94-4)</th>
<th>ATE US (oral)</th>
<th>23.100 mg/kg body weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ATE US (vapors)</td>
<td>0.007 mg/l/4h</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Methyl vinyl ketone (78-94-4)</th>
<th>LD50 oral rat</th>
<th>23.1 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LD50 oral mouse</td>
<td>23 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LC50 inhalation rat (mg/l)</td>
<td>0.007 mg/l (Exposure time: 4 h)</td>
</tr>
<tr>
<td></td>
<td>LC50 inhalation mouse</td>
<td>8 mg/m³ (Exposure time: 2 h)</td>
</tr>
<tr>
<td></td>
<td>ATE US (oral)</td>
<td>23.100 mg/kg body weight</td>
</tr>
<tr>
<td></td>
<td>ATE US (vapors)</td>
<td>0.007 mg/l/4h</td>
</tr>
<tr>
<td></td>
<td>ATE US (dust, mist)</td>
<td>0.007 mg/l/4h</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hydroquinone (123-31-9)</th>
<th>LD50 oral rat</th>
<th>320 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LD50 dermal rabbit</td>
<td>&gt; 2000 mg/kg 24 H</td>
</tr>
<tr>
<td></td>
<td>ATE US (oral)</td>
<td>320.000 mg/kg body weight</td>
</tr>
</tbody>
</table>

- **Skin corrosion/irritation**: Causes severe skin burns and eye damage.
- **Skin Irritation - rat**: 1%: severe irritation effect
- **Serious eye damage/irritation**: Causes serious eye damage.
- **Respiratory or skin sensitization**: Not classified
- **Germ cell mutagenicity**: Not classified
- **Carcinogenicity**: Not classified

<table>
<thead>
<tr>
<th>Hydroquinone (123-31-9)</th>
<th>IARC group</th>
<th>3 - Not classifiable</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>National Toxicology Program (NTP) Status</td>
<td>1 - Evidence of Carcinogenicity</td>
</tr>
<tr>
<td></td>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>Potential Adverse human health effects and symptoms</td>
<td>RTECS Number: MX3500000.</td>
</tr>
</tbody>
</table>

- **Symptoms/injuries after inhalation**: Fatal if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. May cause irritation to the respiratory tract.
- **Symptoms/injuries after skin contact**: Causes (severe) skin burns.
- **Symptoms/injuries after eye contact**: Causes serious eye damage.
- **Symptoms/injuries after ingestion**: Fatal if swallowed. Swallowing a small quantity of this material will result in serious health hazard.
- **Reason for classification**: Expert judgment

### SECTION 12: Ecological information

12.1. **Toxicity**

<table>
<thead>
<tr>
<th>Hydroquinone (123-31-9)</th>
<th>LC50 fish 1</th>
<th>0.044 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EC50 Daphnia 1</td>
<td>0.29 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
<tr>
<td></td>
<td>LC50 fish 2</td>
<td>0.044 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</td>
</tr>
</tbody>
</table>

12.2. **Persistence and degradability**
No additional information available
VINYL METHYL KETONE, 95%
Safety Data Sheet

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Hydroquinone (123-31-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
</tr>
<tr>
<td>Log Pow</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other adverse effects : This substance may be hazardous to the environment.
Effect on ozone layer : No additional information available
Effect on the global warming : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.
Waste disposal recommendations : Incinerate. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.
Additional information : Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number

UN-No. (DOT) : 1251
DOT NA no. : UN1251

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Methyl vinyl ketone, stabilized
Inhalation Hazard Zone A
Hazard labels (DOT) : 6.1 - Poison
3 - Flammable liquid
8 - Corrosive

Packing group (DOT) : I - Great Danger
DOT Packaging Exceptions (49 CFR 173.xxx) : None
DOT Packaging Non Bulk (49 CFR 173.xxx) : 226
DOT Packaging Bulk (49 CFR 173.xxx) : 244

14.3. Additional information

Emergency Response Guide (ERG) Number : 131P
Other information : No supplementary information available.

Transport by sea

DOT Vessel Stowage Location : B - (i) The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) “On deck only” on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded
DOT Vessel Stowage Other : 21 - Segregation same as for flammable liquids, 40 - Stow “clear of living quarters”, 100 - Stow “away from” flammable solids

Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : Forbidden
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : Forbidden
SECTION 15: Regulatory information

15.1. US Federal regulations

Methyl vinyl ketone (78-94-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the United States SARA Section 302
SARA Section 302 Threshold Planning Quantity (TPQ) 10

Hydroquinone (123-31-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313
EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA
SARA Section 302 Threshold Planning Quantity (TPQ) ≤ 10000
SARA Section 313 - Emission Reporting 1.0 %

15.2. International regulations

Methyl vinyl ketone (78-94-4)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian NDSL (Non-Domestic Substances List)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Canadian IDL (Ingredient Disclosure List)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Hydroquinone (123-31-9)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Canadian IDL (Ingredient Disclosure List)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)

15.3. US State regulations

VINYL METHYL KETONE, 95%(78-94-4)

<table>
<thead>
<tr>
<th>State</th>
<th>Carcinogens List</th>
<th>Developmental Toxicity</th>
<th>Reproductive Toxicity - Female</th>
<th>Reproductive Toxicity - Male</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>U.S. - Massachusetts</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Methyl vinyl ketone (78-94-4)

<table>
<thead>
<tr>
<th>State</th>
<th>Carcinogens List</th>
<th>Developmental Toxicity</th>
<th>Reproductive Toxicity - Female</th>
<th>Reproductive Toxicity - Male</th>
<th>Non-significant risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>U.S. - California</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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</tbody>
</table>

Hydroquinone (123-31-9)

<table>
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<th>State</th>
<th>Carcinogens List</th>
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<th>Reproductive Toxicity - Female</th>
<th>Reproductive Toxicity - Male</th>
<th>Non-significant risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>U.S. - California</td>
<td>No</td>
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<td>No</td>
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<td>No</td>
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</tbody>
</table>

Methyl vinyl ketone (78-94-4)

<table>
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<th>Right To Know List</th>
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<td>U.S. - California</td>
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</tbody>
</table>

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SECTION 16: Other information

Abbreviations and acronyms:
- Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemical Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

Full text of H-phrases:
- H225: Highly flammable liquid and vapor
- H300: Fatal if swallowed
- H302: Harmful if swallowed
- H314: Causes severe skin burns and eye damage
- H317: May cause an allergic skin reaction
- H318: Causes serious eye damage
- H330: Fatal if inhaled
- H341: Suspected of causing genetic defects
- H351: Suspected of causing cancer
- H400: Very toxic to aquatic life
- H402: Harmful to aquatic life

HMIS III Rating:
- Health: 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures
- Flammability: 3 Serious Hazard
- Physical: 1 Slight Hazard

Prepared by safety and environmental affairs.

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SDS US (GHS HazCom 2012) - Custom

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

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