SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: MA2045 Adhesive
Manufacturer Name: ITW Plexus
Address: 30 Endicott Street, Danvers, MA 01923
General Phone Number: (978) 777-1100
Emergency Phone Number: (800) 424-9300
CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300
Canutec: In Canada, call CANUTEC: (613) 996-6666 (call collect)
MSDS Creation Date: 04/23/2010
MSDS Revision Date: 04/23/2010

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Ingredient Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dodecyl methacrylate</td>
<td>142-90-5</td>
<td>5 - 10 by weight</td>
</tr>
<tr>
<td>Methyl Methacrylate Monomer</td>
<td>80-62-6</td>
<td>30 - 60 by weight</td>
</tr>
<tr>
<td>Trade secret.</td>
<td>N/A</td>
<td>10 - 30 by weight</td>
</tr>
<tr>
<td>2-Propenoic acid, 2-methyl-, polymer with 2-chloro-1,3-butadiene</td>
<td>25053-30-9</td>
<td>1 - 5 by weight</td>
</tr>
<tr>
<td>Non-hazardous ingredients.</td>
<td>N/A</td>
<td>1 - 5 by weight</td>
</tr>
<tr>
<td>Trimethylolpropane, trimethacrylate esters</td>
<td>3290-92-4</td>
<td>1 - 5 by weight</td>
</tr>
<tr>
<td>Tetradecyl methacrylate</td>
<td>2549-53-3</td>
<td>1 - 5 by weight</td>
</tr>
<tr>
<td>Methacrylic acid</td>
<td>79-41-4</td>
<td>1 - 5 by weight</td>
</tr>
<tr>
<td>Hexadecyl methacrylate</td>
<td>2495-27-4</td>
<td>1 - 5 by weight</td>
</tr>
</tbody>
</table>

SECTION 3 - HAZARDS IDENTIFICATION

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:

Eye: Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

Skin: Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

Inhalation: Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals.

Ingestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Chronic Health Effects: Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.

Signs/Symptoms: Overexposure can cause headaches, dizziness, nausea, and vomiting.


Aggravation of Pre-Existing Conditions: Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.
SECTION 4 - FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Other First Aid: Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties: Flammable. Fine mists explosive below flash point.
Flash Point: 50°F (10°C)
Flash Point Method: Tag closed cup (TCC)
Auto Ignition Temperature: Not determined.
Lower Flammable/Explosive Limit: 2.1%
Upper Flammable/Explosive Limit: 12.5%

Fire Fighting Instructions: Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

Extinguishing Media: Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.

Unsuitable Media: Water may cause frothing.

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

Unusual Fire Hazards: Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spill Cleanup Measures: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Flammable, eliminate ignition sources. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back. Ventilate area. Use proper personal protective equipment as listed in section 8.

Personnel Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Other Precautions: Pump or shovel to storage/salvage vessels. Add inhibitor to prevent polymerization.

SECTION 7 - HANDLING and STORAGE

Handling: Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning or reconditioning.

Storage: Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use.

Special Handling Procedures: Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product. Hazardous liquid or vapor residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut, weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources of empty containers without proper commercial cleaning or reconditioning.

Hygiene Practices: Wash thoroughly after handling.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below
recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Eye/Face Protection:
Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection Description:
Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.

Respiratory Protection:
A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective:
Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

EXPOSURE GUIDELINES

**Methyl Methacrylate Monomer:**

- Guideline ACGIH: 50 ppm
- Sensitizer: Sen
- TLV-STE[L: 100 ppm
- TLV-TWA: 50 ppm

- Guideline OSHA: 100 ppm
- PEL-TWA: 100 ppm

**Methacrylic acid:**

- Guideline ACGIH: 20 ppm
- TLV-TWA: 20 ppm

Notes:
Only established PEL and TLV values for the ingredients are listed.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

- Physical State Appearance: Paste.
- Color: Off-white.
- Boiling Point: 213°F (100.5°C)
- Melting Point: -54°F (-47.7°C)
- Specific Gravity: 0.93-1.05
- Solubility: Not determined.
- Vapor Density: > 1 (air = 1)
- Vapor Pressure: 28 mmHg @68°F
- Percent Volatile: Not determined.
- Evaporation Rate: 3 (butyl acetate = 1)
- Molecular Formula: Mixture
- Molecular Weight: Mixture
- Flash Point: 50°F (10°C)
- Flash Point Method: Tag closed cup (TCC)
- Auto Ignition Temperature: Not determined.
- VOC Content: <50 g/L mixed.
- Percent Solids by Weight: Not determined.

SECTION 10 - STABILITY and REACTIVITY

- Chemical Stability: Unstable.
- Hazardous Polymerization: Polymerization may occur under certain conditions.
- Conditions to Avoid: Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Oxygen-free atmospheres or inert gas blanketing. Freezing conditions. Material can soften paint and rubber.
- Incompatible Materials: Oxidizing agents (eg peroxides, nitrates), reducing agents, acids, bases, azo-compounds, catalytic metals (eg copper, iron), halogens. Free radical initiators. Oxygen scavengers.

SECTION 11 - TOXICOLOGICAL INFORMATION

**Dodecyl methacrylate:**

- RTECS Number: OZ4300000
- Eye: Eye - Rabbit Standard Draize Test: 500 mg/24H [mild]
- Skin: Intraperitoneal. - Rat LD50: 12 gm/kg [Details of toxic effects not reported other than lethal dose value.]
  Intraperitoneal. - Mouse LD50: 25 gm/kg [Details of toxic effects not reported other than lethal dose value.]

**Methyl Methacrylate Monomer:**
SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

RCRA Number: D001

Important Disposal Information: DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion.
catch fire if improperly discarded or stored. To avoid a spontaneous combustion
fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled,
metal container.

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name: Adhesives
DOT UN Number: 1133
DOT Hazard Class: 3
DOT Packing Group: II
DOT Exemption: ORM-D Small quantity exemption

SECTION 15 - REGULATORY INFORMATION

Dodecyl methacrylate:
TSCA Inventory Status: Listed
Canada DSL: Listed
Methyl Methacrylate Monomer:
TSCA Inventory Status: Listed
SARA: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
New Jersey: Listed: NJ Hazardous List; Substance Number: 1277
Massachusetts: Listed: Massachusetts Oil and Hazardous List
Pennsylvania: Listed
Canada DSL: Listed

2-Propenoic acid, 2-methyl, polymer with 2-chloro-1,3-butadiene:
TSCA Inventory Status: Listed
Canada DSL: Listed

Trimethylolpropane, trimethacrylate esters:
TSCA Inventory Status: Listed
Canada DSL: Listed

Tetradecyl methacrylate:
TSCA Inventory Status: Listed
Canada DSL: Listed

Methacrylic acid:
TSCA Inventory Status: Listed
Massachusetts: Listed: Massachusetts Oil and Hazardous List
Pennsylvania: Listed
Canada DSL: Listed

Hexadecyl methacrylate:
TSCA Inventory Status: Listed
Canada DSL: Listed

Canadian Regulations: WHMIS Hazard Class(es): B2; D2B
All components of this product are on the Canadian Domestic Substances List.

WHMIS Pictograms

SECTION 16 - ADDITIONAL INFORMATION

HMIS Fire Hazard: 3
HMIS Health Hazard: 2*
HMIS Reactivity: 2
HMIS Personal Protection: X
MSDS Creation Date: 04/23/2010
MSDS Revision Date: 04/23/2010
MSDS Author: Actio Corporation

Disclaimer: This Health and Safety Information is correct to the best of our knowledge and
believe at the date of its publication but we cannot accept liability for any loss,
injury or damage which may result from its use. The information given in the Data
Sheet is designed only as a guidance for safe handling, storage and the use of the
substance. It is not a specification nor does it guarantee any specific properties.
All chemicals should be handled only by competent personnel, within a controlled
environment.

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: MA2030/2045/2090 ACTIVATOR
MSDS Manufacturer Number: 0846
Manufacturer Name: ITW
Address: 30 Endicott Street
Danvers, MA 01923
General Phone Number: (978) 777-1100
Emergency Phone Number: (800) 424-9300
CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300
Canutec: In Canada, call CANUTEC: (613) 996-6666 (call collect)
MSDS Revision Date: 11/17/2010

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Ingredient Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzoyl peroxide</td>
<td>94-36-0</td>
<td>5 - 10 by weight</td>
</tr>
<tr>
<td>Diisobutyl Phthalate</td>
<td>84-69-5</td>
<td>30 - 60 by weight</td>
</tr>
<tr>
<td>Texanol Benzyl Phthalate</td>
<td>16883-83-3</td>
<td>30 - 60 by weight</td>
</tr>
<tr>
<td>Cumene hydroperoxide</td>
<td>80-15-9</td>
<td>1 - 5 by weight</td>
</tr>
<tr>
<td>Non-hazardous ingredients.</td>
<td>N/A</td>
<td>10 - 30 by weight</td>
</tr>
<tr>
<td>Trade secret.</td>
<td>N/A</td>
<td>1 - 5 by weight</td>
</tr>
<tr>
<td>Magnesium sulfate</td>
<td>7487-88-9</td>
<td>0.1 - 1 by weight</td>
</tr>
</tbody>
</table>

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview: DANGER! Potential Sensitizer Irritant.
Route of Exposure: Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:

Eye: Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

Skin: Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

Inhalation: Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals.

Ingestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Chronic Health Effects: Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.

Signs/Symptoms: Overexposure can cause headaches, dizziness, nausea, and vomiting.


Aggravation of Pre-Existing Conditions: Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

SECTION 4 - FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties: Decomposition products can be Flammable. Self accelerating decomposition temperature is 129 F (estimated).
## Flash Point:
Not determined.

## Auto Ignition Temperature:
Not determined.

## Lower Flammable/Explosive Limit:
Not determined.

## Upper Flammable/Explosive Limit:
Not determined.

## Fire Fighting Instructions:
Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

## Extinguishing Media:
Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.

## Protective Equipment:
As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

## Unusual Fire Hazards:
Organic peroxides can decompose violently if heated strongly while confined. Sudden reaction and fire may result if product is mixed with an oxidizing agent.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

#### Spill Cleanup Measures:
Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment as listed in section 8.

#### Personnel Precautions:
Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

#### Environmental Precautions:
Avoid runoff into storm sewers, ditches, and waterways.

#### Other Precautions:
Pump or shovel to storage/salvage vessels.

### SECTION 7 - HANDLING and STORAGE

#### Handling:
Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.

#### Storage:
Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use. Do not store in temperatures above 100 °F.

#### Hygiene Practices:
Wash thoroughly after handling.

### SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

#### Engineering Controls:
Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective, wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

#### Eye/face Protection:
Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

#### Skin Protection Description:
Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer’s data for permeability data.

#### Respiratory Protection:
A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

#### Other Protective:
Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

### EXPOSURE GUIDELINES

**Benzoyl peroxide**

#### Guideline ACGIH:
5 mg/m3

#### TLV-TWA:
5 mg/m3

#### Guideline OSHA:
5 mg/m3

#### PEL-TWA:
5 mg/m3

#### Notes:
Only established PEL and TLV values for the ingredients are listed.

### SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

#### Physical State Appearance:
Paste.

#### Color:
Blue

#### Odor:
Slight odor

#### Boiling Point:
Not determined.

#### Melting Point:
Not determined.
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<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Specific Gravity</td>
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<tr>
<td>Solubility</td>
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<tr>
<td>Vapor Density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt;=1 (butyl acetate = 1)</td>
</tr>
<tr>
<td>pH</td>
<td>Neutral.</td>
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<tr>
<td>Molecular Formula</td>
<td>Mixture</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>Mixture</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto Ignition Temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>VOC Content</td>
<td>0 g/L</td>
</tr>
<tr>
<td>Percent Solids by Weight</td>
<td>99</td>
</tr>
</tbody>
</table>

### SECTION 10 - STABILITY and REACTIVITY

**Chemical Stability:** Unstable.

**Hazardous Polymerization:** Not reported.

**Conditions to Avoid:** Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Contamination, direct sunlight, friction and prolonged storage above 100°F (38°C).

**Incompatible Materials:** Oxidizing agents. Strong acids and alkalis.

### SECTION 11 - TOXICOLOGICAL INFORMATION

#### Benzoyl peroxide:

<table>
<thead>
<tr>
<th>RTECS Number</th>
<th>DM8575000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye:</strong> Eye</td>
<td>Rabbit Standard Draize Test.: 500 mg/24H</td>
</tr>
<tr>
<td><strong>Skin:</strong> Oral</td>
<td>LD50: 7710 mg/kg [Lungs, Thorax, or Respiration - Cyanosis Liver - Other changes Kidney/Ureter/Bladder - Other changes in urine composition]</td>
</tr>
<tr>
<td></td>
<td>Mouse LD50: 1200 mg/kg [Details of toxic effects not reported other than lethal dose value.]</td>
</tr>
<tr>
<td></td>
<td>Rat LD50: 6400 mg/kg [Details of toxic effects not reported other than lethal dose value.]</td>
</tr>
<tr>
<td></td>
<td>Intraperitoneal. - Mouse LD50: 147 mg/kg [Details of toxic effects not reported other than lethal dose value.]</td>
</tr>
<tr>
<td></td>
<td>Intraperitoneal. - Rat LD50: 372.8 mg/kg [Details of toxic effects not reported other than lethal dose value.]</td>
</tr>
<tr>
<td><strong>Ingestion:</strong> Oral</td>
<td>LD50: 7710 mg/kg [Lungs, Thorax, or Respiration - Cyanosis Liver - Other changes Kidney/Ureter/Bladder - Other changes in urine composition]</td>
</tr>
<tr>
<td></td>
<td>Mouse LD50: 1200 mg/kg [Details of toxic effects not reported other than lethal dose value.]</td>
</tr>
<tr>
<td></td>
<td>Rat LD50: 6400 mg/kg [Details of toxic effects not reported other than lethal dose value.]</td>
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</tbody>
</table>

#### Diisobutyl Phthalate:

<table>
<thead>
<tr>
<th>RTECS Number</th>
<th>TI1225000</th>
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</thead>
<tbody>
<tr>
<td><strong>Skin:</strong> Oral</td>
<td>LD50: 15 gm/kg [Details of toxic effects not reported other than lethal dose value.]</td>
</tr>
<tr>
<td></td>
<td>Intrapерitoneal. - Rat LD50: 3750 uL/kg [Details of toxic effects not reported other than lethal dose value.]</td>
</tr>
<tr>
<td></td>
<td>Unreported - Rat LD50: 20500 mg/kg [Details of toxic effects not reported other than lethal dose value.]</td>
</tr>
<tr>
<td></td>
<td>Oral - Mouse LD50: 10 gm/kg [Behavioral - Muscle weakness Behavioral - Coma Lungs, Thorax, or Respiration - Respiratory stimulation]</td>
</tr>
<tr>
<td></td>
<td>Intraperitoneal. - Mouse LD50: 3990 mg/kg [Details of toxic effects not reported other than lethal dose value.]</td>
</tr>
<tr>
<td></td>
<td>Unreported - Mouse LD50: 10500 mg/kg [Details of toxic effects not reported other than lethal dose value.]</td>
</tr>
<tr>
<td><strong>Ingestion:</strong> Oral</td>
<td>LD50: 15 gm/kg [Details of toxic effects not reported other than lethal dose value.]</td>
</tr>
<tr>
<td></td>
<td>Administration onto the skin - Guinea pig LD50: 10 gm/kg [Details of toxic effects not reported other than lethal dose value.]</td>
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</tbody>
</table>

#### Cumene hydroperoxide:

<table>
<thead>
<tr>
<th>RTECS Number</th>
<th>MX2450000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye:</strong> Eye</td>
<td>Rabbit Standard Draize Test.: 1 mg</td>
</tr>
<tr>
<td></td>
<td>Rabbit Standard Draize Test.: 70%</td>
</tr>
<tr>
<td><strong>Skin:</strong> Oral</td>
<td>LD50: 382 mg/kg [Kidney/Ureter/Bladder - Hematuria]</td>
</tr>
<tr>
<td></td>
<td>Administration onto the skin - Rat LD50: 500 mg/kg [Behavioral - Convulsions or effect on seizure threshold Kidney/Ureter/Bladder - Hematuria]</td>
</tr>
<tr>
<td></td>
<td>Intraperitoneal. - Rat LD50: 95 mg/kg [Behavioral - Muscle weakness Behavioral - Ataxia]</td>
</tr>
<tr>
<td></td>
<td>Subcutaneous - Rat LD50: 382 mg/kg [Details of toxic effects not reported other than lethal dose value.]</td>
</tr>
<tr>
<td></td>
<td>Intraperitoneal. - Mouse LD50: 490 mg/kg [Behavioral - Somnolence (general depressed activity) Behavioral - Excitement Lungs, Thorax, or Respiration - Dyspnea]</td>
</tr>
<tr>
<td></td>
<td>Oral - Mouse LD50: 342 mg/kg [Details of toxic effects not reported other than lethal dose value.]</td>
</tr>
</tbody>
</table>
Oral - Rat
LD50: 800 mg/kg [Details of toxic effects not reported other than lethal dose value.]
Administration onto the skin - Mouse LD50: 490 mg/kg [Details of toxic effects not reported other than lethal dose value.]
Intraperitoneal. - Mouse LD50: 270 mg/kg [Details of toxic effects not reported other than lethal dose value.]
Intraperitoneal. - Rat LD50: 235 mg/kg [Behavioral - Alteration of classical conditioning Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic - Body temperature decrease]

Inhalation:
Inhalation - Rat LC50: 220 ppm/4H [Lungs, Thorax, or Respiration - Dyspnea]
Inhalation - Mouse LC50: 200 ppm/4H [Lungs, Thorax, or Respiration - Dyspnea]

Ingestion:
Oral - Rat LD50: 382 mg/kg [Kidney/Ureter/Bladder - Hematuria]
Oral - Mouse LD50: 342 mg/kg [Details of toxic effects not reported other than lethal dose value.]
Oral - Rat LD50: 800 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Magnesium sulfate:
RTECS Number: OM4500000
Skin:
Subcutaneous - Mouse LD50: 645 mg/kg [Details of toxic effects not reported other than lethal dose value.]
Subcutaneous - Rat LD50: 1200 mg/kg [Details of toxic effects not reported other than lethal dose value.]
Intraperitoneal. - Mouse LD50: 150 mg/kg [Details of toxic effects not reported other than lethal dose value.]

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product.
Environmental Fate: No environmental information found for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.
RCRA Number: D003

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name: Non regulated.
DOT UN Number: Not applicable.
DOT Hazard Class: Not applicable.
DOT Packing Group: Not applicable.

SECTION 15 - REGULATORY INFORMATION

Benzoyl peroxide:
TSCA Inventory Status: Listed
SARA: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
New Jersey: Listed: NJ Hazardous List; Substance Number: 0215
Massachusetts: Listed: Massachusetts Oil and Hazardous List
Pennsylvania: Listed
Canada DSL: Listed

Diisobutyl Phthalate:
TSCA Inventory Status: Listed
Canada DSL: Listed

Texanol Benzyl Phthalate:
TSCA Inventory Status: Listed
Canada DSL: Listed

Cumene hydroperoxide:
TSCA Inventory Status: Listed
SARA: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
New Jersey: Listed: NJ Hazardous List; Substance Number: 0543
Massachusetts: Listed: Massachusetts Oil and Hazardous List
Pennsylvania: Listed
Canada DSL: Listed

Magnesium sulfate:
TSCA Inventory Status: Listed
Canada DSL: Listed
Canadian Regulations: WhMIS Hazard Class(es): D2B
All components of this product are on the Canadian Domestic Substances List.

### WHMIS Pictograms

### SECTION 16 - ADDITIONAL INFORMATION

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