Product identifier used on the label:
Kit Name: MA420 (AO420) BLACK
Stock No.: 35701

Other means of identification:

Recommended use of the chemical and restrictions on use:

Chemical manufacturer address and telephone number:
Manufacturer Name: ITW Performance Polymers
Address: 30 Endicott Street
Danvers, MA 01923

Component list

<table>
<thead>
<tr>
<th>Component A</th>
<th>AO420 ADHESIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component B</td>
<td>MA420 - AO420 EU BLACK ACTIVATOR</td>
</tr>
<tr>
<td>Kit SDS Revision Date</td>
<td>1/13/2015</td>
</tr>
</tbody>
</table>

Component A - SDS

SECTION 1 : IDENTIFICATION

Product identifier used on the label:
Product Name: AO420 ADHESIVE

Other means of identification:
Synonyms: None.

Recommended use of the chemical and restrictions on use:
Product Use/Restriction: Not applicable.

Chemical manufacturer address and telephone number:
Manufacturer Name: ITW Performance Polymers
Address: 30 Endicott Street
Danvers, MA 01923
General Phone Number: (978) 777-1100

Emergency phone number:
Emergency Phone Number: (800) 424-9300
CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:

Signal Word: DANGER.

GHS Class:
- Flammable Liquid. Category 2.
- Serious Eye Damage. category 1.
- Skin corrosion. category 1.
- Skin Sensitization. category 1.
- Specific Target Organ Toxicity - STOT, Single Exposure SE. Category 3.

Hazard Statements:
- H225 - Highly flammable liquid and vapor.
- H318 - Causes serious eye damage.
- H314 - Causes severe skin burns and eye damage.
- H317 - May cause an allergic skin reaction.
- H335 - May cause respiratory irritation.
Precautionary Statements:
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.
P245 - In case of fire: Use dry chemical, carbon dioxide to extinguish small fires.

Use water for large fires.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P302+P352 - IF ON SKIN: Wash with plenty of water.
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.
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 POISON CENTER or doctor/physician.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P313 - Specific treatment (see ... on this label).
P314 - Store locked up.
P315 - If breathed by persons not at work, seek medical advice/attention.
P318 - If exposed or suspected to be exposed, seek medical advice/attention.
P321 - If swallowed, see above.
P322 - Do not give anything by mouth to an unconscious person.
P323 - Keep out of the reach of children.
P324 - If on skin (or hair): Take off immediately all contaminated clothing, Wash skin with water/shower.
P330+P331+P332 - IF EXPOSED OR SUSPECTED TO BE EXPOSED: See ... on this label.
P333+P337+P338 - IF OBTAINED: Seek medical advice/attention.
P338-313 - If eye/face irritation develops: Get medical advice/attention.
P338+P313 - If eye/face irritation develops: Get medical advice/attention.
P338+P313+P337 - If eye/face irritation develops: Get medical advice/attention.
P338+P313-P314+P337-P338 - If eye/face irritation develops: Get medical advice/attention.
P353 - If in eyes: Remove contact lenses, if present and easy to do. Continue rinsing.
P355 - If contacted, wash with plenty of water.
P357 - If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
P361-362 - If in eyes: Remove contact lenses, if present and easy to do. Continue rinsing.
P363 - Wash contaminated clothing before reuse.
P364+P335 - Take off contaminated clothing and wash before reuse.
P365+P369 - Take off contaminated clothing and wash before reuse.
P366 - Take off contaminated clothing and wash before reuse.
P367+P368 - Take off contaminated clothing and wash before reuse.
P369+P335 - Take off contaminated clothing and wash before reuse.
P370+P372 - In case of fire: Use dry chemical, carbon dioxide to extinguish small fires.

Use water for large fires.
P371 - Use water for cooling exposed containers.
P372 - Use water for cooling exposed containers.
P373 - In case of fire: Use dry chemical, carbon dioxide to extinguish small fires.

Use water for large fires.
P375 - Do NOT use water.
P380 - Transport in accordance with Good Practice Guide 26 and local regulations.
P381 - For advice on immediate action to take in case of a spillage, consult local authority.
P382 - In case of a fire, wear self-contained breathing apparatus (SCBA).
P383 - If shipped as a dangerous goods, in accordance with the requirements for that mode of transport.
P384 - Danger of asphyxiation from carbon monoxide.
P385 - Danger of asphyxiation from carbon monoxide.
P386 - Danger of asphyxiation from carbon monoxide.
P387 - Danger of asphyxiation from carbon monoxide.
P388 - Danger of asphyxiation from carbon monoxide.
P389 - Danger of asphyxiation from carbon monoxide.
P391 - If the material is ignitable (or reactive), do not use water.
P392 - If the material is ignitable (or reactive), do not use water.
P393 - If the material is ignitable (or reactive), do not use water.
P394 - If the material is ignitable (or reactive), do not use water.
P395 - If the material is ignitable (or reactive), do not use water.
P396 - If the material is ignitable (or reactive), do not use water.
P398 - If the material is ignitable (or reactive), do not use water.
P399 - If the material is ignitable (or reactive), do not use water.
P400 - If the material is ignitable (or reactive), do not use water.
P401 - If the material is ignitable (or reactive), do not use water.
P402 - If the material is ignitable (or reactive), do not use water.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:
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.
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 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Ingredient Percent</th>
<th>EC Num.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propenoic acid, 2-methyl-, polymer with 2-chloro-1,3-butadiene</td>
<td>25053-30-9</td>
<td>1 - 10 by weight</td>
<td></td>
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<tr>
<td>Methyl Methacrylate Monomer</td>
<td>80-62-6</td>
<td>60 - 70 by weight</td>
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</tr>
<tr>
<td>Methacrylic acid</td>
<td>79-41-4</td>
<td>1 - 10 by weight</td>
<td></td>
</tr>
<tr>
<td>Proprietary Ingredient(s)</td>
<td>No Data</td>
<td>10 - 20 by weight</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4 : FIRST AID MEASURES

Description of necessary 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

Suitable and unsuitable extinguishing media:

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

Unsuitable Extinguishing Media: Water may cause frothing.

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

Special protective equipment and precautions for fire-fighters:

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

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. Vapors can flow along surfaces to distant ignition sources and flash back.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

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

Environmental Precautions:

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

Methods and materials for containment and cleaning up:

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.

Reference to other sections:

Spill Cleanup Measures: Pump or shovel to storage/salvage vessels. Add inhibitor to prevent polymerization.

SECTION 7: HANDLING and STORAGE

Precautions for safe handling:

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.

Hygiene Practices: Wash thoroughly after handling.

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.

Conditions for safe storage, including any incompatibilities:

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.

REFERENCES TO OTHER SECTIONS:

Spill Cleanup Measures: Other Precautions:

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Guidelines:

Methyl Methacrylate Monomer:

Guideline ACGIH: TLV-STEL: 100 ppm TLV-TWA: 50 ppm Sensitizer.

Guideline OSHA: PEL-TWA: 100 ppm

Methacrylic acid:

Guideline ACGIH: TLV-TWA: 20 ppm

Appropriate engineering controls:

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.
Individual protection measures:

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.

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

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State Appearance: Paste.
Color: off-white.
Odor: Fragrant.
Boiling Point: 213°F (100.5°C)
Melting Point: -54°F (-47.7°C)
Specific Gravity: 0.96
Solubility: Not determined.
Vapor Density: > 1 (air = 1)
Vapor Pressure: 28 mmHg @68°F
Percent Volatile: Not determined.
Evaporation Rate: 3 (butyl acetate = 1)
PH: Not determined.
Molecular Formula: Mixture
Molecular Weight: Mixture
Flash Point: 50°F (10°C)
Flash Point Method: Tag closed cup. (TCC)
Lower Flammable/Explosive Limit: 1.7%
Upper Flammable/Explosive Limit: 12.5%
Auto Ignition Temperature: 789°F
VOC Content: <50 g/L mixed.

9.2 Other information:
Percent Solids by Weight: Not determined.

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability: Unstable.
Possibility of hazardous reactions: Polymerization may occur under certain conditions.
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

TOXICOLOGICAL INFORMATION:

Methyl Methacrylate Monomer:
**WHMIS Pictograms:**

**Eye:**
Administration into the eye - Rabbit Standard Draize test: 150 mg [Not reported.](RTECS)

**Skin:**
Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: >5 gm/kg [Skin and Appendages - Dermatitis, other(After systemic exposure)] (RTECS)

**Inhalation:**
Inhalation - Rat LC50 - Lethal concentration, 50 percent kill: 78000 mg/m3/4H [Details of toxic effects not reported other than lethal dose value] (RTECS)

**Ingestion:**
Oral - Rat LD50 - Lethal dose, 50 percent kill: 7872 mg/kg [Behavioral - Muscle weakness Behavioral - Coma Lungs, Thorax, or Respiration - Respiratory depression] (RTECS)

**Methacrylic acid:**

**Skin:**
Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 500 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

**Ingestion:**
Oral - Rat LD50 - Lethal dose, 50 percent kill: 1060 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

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**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**

**Description of waste:**
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 fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled, metal container.

---

**SECTION 14 : TRANSPORT INFORMATION**

**DOT Shipping Name:**
Refer to Bill of Lading

**DOT UN Number:**
Refer to Bill of Lading

**IATA Shipping Name:**
Refer to Bill of Lading

**IATA UN Number:**
Refer to Bill of Lading

**IMDG UN Number:**
Refer to Bill of Lading

**IMDG Shipping Name:**
Refer to Bill of Lading

---

**SECTION 15 : REGULATORY INFORMATION**

**Safety, health and environmental regulations specific for the product:**

**2-Propenoic acid, 2-methyl- polymer with 2-chloro-1,3-butadiene :**

**TSCA Inventory Status:**
Listed

**Canada DSL:**
Listed

**Methyl Methacrylate Monomer :**

**TSCA Inventory Status:**
Listed

**Section 313:**
EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.

**Canada DSL:**
Listed

**Methacrylic acid :**

**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.

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**SECTION 16 : ADDITIONAL INFORMATION**

MA420 (AO420) BLACK
Stock No. 35701
Revision: 1/13/2015
Page 5 of 11
Component B - SDS

SECTION 1 : IDENTIFICATION

Product identifier used on the label: MA420 - AO420 EU BLACK ACTIVATOR

Other means of identification:

Recommended use of the chemical and restrictions on use:

Chemical manufacturer address and telephone number:

Manufacturer Name: ITW
Address: 30 Endicott Street
Danvers, MA 01923

General Phone Number: (978) 777-1100

Emergency phone number:

Emergency Phone Number: (800) 424-9300

CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:

Signal Word: WARNING.

GHS Class:

Organic peroxides. Type F.
Eye Irritation. Category 2.
Skin Irritation. Category 2.
Skin Sensitization. Category 1.
Specific Target Organ Toxicity - STOT, Single Exposure SE. Category 3.

Hazard Statements:

H242 - Heating may cause a fire.
H319 - Causes serious eye irritation.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H335 - May cause respiratory irritation.
Precautionary Statements:
P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P234 - Keep only in original container.
P235 - Keep cool.
P240 - Ground/Bond container and receiving equipment.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Use protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P313 - Specific treatment (see on this label).
P332+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use dry chemical, carbon dioxide to extinguish small fires. Use water for large fires.
P403 - Store in a well-ventilated place.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P410 - Protect from sunlight.
P411 - Store at temperatures not exceeding °C/°F.
P412 - Store separately.
P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:

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. Inhalation: Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects. Ingestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and possible tissue destruction.
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 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Ingredient Percent</th>
<th>EC Num.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>1 - 10 by weight</td>
<td></td>
</tr>
<tr>
<td>Styrene-ethylene/butylene-styrene block copolymer</td>
<td>66070-58-4</td>
<td>1 - 10 by weight</td>
<td></td>
</tr>
<tr>
<td>Proprietary ingredient(s)</td>
<td>Trade Secret</td>
<td>20 - 30 by weight</td>
<td></td>
</tr>
<tr>
<td>Benzoyl peroxide</td>
<td>94-36-0</td>
<td>20 - 30 by weight</td>
<td>202-327-6</td>
</tr>
<tr>
<td>Bisphenol A diglycidyl ether resin</td>
<td>25068-38-6</td>
<td>20 - 30 by weight</td>
<td>500-033-5</td>
</tr>
<tr>
<td>Diisodecyl adipate</td>
<td>27179-16-1</td>
<td>10 - 20 by weight</td>
<td>248-299-9</td>
</tr>
<tr>
<td>Dipropylene glycol dibenzoate</td>
<td>27138-31-4</td>
<td>1 - 10 by weight</td>
<td>248-258-5</td>
</tr>
<tr>
<td>Black iron oxide</td>
<td>1317-61-9</td>
<td>1 - 10 by weight</td>
<td>215-277-5</td>
</tr>
</tbody>
</table>

SECTION 4 : FIRST AID MEASURES

Description of necessary 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

Suitable and unsuitable extinguishing media:

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

Unsuitable extinguishing media: Water or foam may cause frothing.

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.

Special protective equipment and precautions for fire-fighters:

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

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.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

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

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

Methods and materials for containment and cleaning up:

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.

Reference to other sections: Pump or shovel to storage/salvage vessels.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

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

Hygiene Practices: Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities:

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.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Benzoyl peroxide:

Guideline ACGIH: TLV-TWA: 5 mg/m3
Guideline OSHA: PEL-TWA: 5 mg/m3

Appropriate engineering controls:

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.

Individual protection measures:

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.

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

### SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical State Appearance:</th>
<th>Viscous. Liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Natural</td>
</tr>
<tr>
<td>Odor:</td>
<td>Slight. odor.</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>1.25</td>
</tr>
<tr>
<td>Solubility:</td>
<td>slightly soluble.</td>
</tr>
<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>Not determined.</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>&lt;=1 (butyl acetate = 1)</td>
</tr>
<tr>
<td>pH:</td>
<td>Neutral</td>
</tr>
<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>Lower Flammable/Explosive Limit:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper Flammable/Explosive Limit:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto Ignition Temperature:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>VOC Content:</td>
<td>&lt;50 g/L mixed.</td>
</tr>
<tr>
<td>9.2. Other information:</td>
<td></td>
</tr>
<tr>
<td>Percent Solids by Weight:</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

### SECTION 10: STABILITY and REACTIVITY

Chemical Stability: Unstable.

Possibility of hazardous reactions:

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).


### SECTION 11: TOXICOLOGICAL INFORMATION

#### Benzoyl peroxide:

**Eye:** Administration into the eye - Rabbit Standard Draize test: 500 mg/24H [Mild] (RTECS)

**Ingestion:** Oral - Rat LD50 - Lethal dose, 50 percent kill: 7710 mg/kg (Lungs, Thorax, or Respiration - Cyanosis Liver - Other changes Kidney/Ureter/Bladder - Other changes in urine composition)

#### Bisphenol A diglycidyl ether resin:

**Eye:** Administration into the eye - Rabbit Standard Draize test: 100 mg [Mild]

**Ingestion:** Oral - Rat LD50 - Lethal dose, 50 percent kill: 6400 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
**Skin:**  
Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: >20 mL/kg [Details of toxic effects not reported other than lethal dose value]  
Administration onto the skin - Rat LD50 - Lethal dose, 50 percent kill: >1200 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

**Ingestion:**  
Oral - Rat LD50 - Lethal dose, 50 percent kill: 10700 uL/kg [Details of toxic effects not reported other than lethal dose value]  
Oral - Rat LD50 - Lethal dose, 50 percent kill: 13600 mg/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic - Weight loss or decreased weight gain]  
Oral - Rat LD50 - Lethal dose, 50 percent kill: 13.6 gm/kg [Details of toxic effects not reported other than lethal dose value]  
Oral - Rat LD50 - Lethal dose, 50 percent kill: 11.4 gm/kg [Details of toxic effects not reported other than lethal dose value]  
Oral - Rat LD50 - Lethal dose, 50 percent kill: 30 gm/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic - Weight loss or decreased weight gain]  
Oral - Rat LD50 - Lethal dose, 50 percent kill: >1 gm/kg [Details of toxic effects not reported other than lethal dose value]

**Diisodecyl adipate:**  
Ingestion:  
Oral - Rat LD50 - Lethal dose, 50 percent kill: 20.5 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

**Dipropylene glycol dibenzoate:**  
Skin:  
Administration onto the skin - Rat LD50 - Lethal dose, 50 percent kill: >2000 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

**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**

**Description of waste:**
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.

**SECTION 14 : TRANSPORT INFORMATION**

**DOT Shipping Name:** Refer to Bill of Lading  
**DOT UN Number:** Refer to Bill of Lading  
**IATA Shipping Name:** Refer to Bill of Lading  
**IATA UN Number:** Refer to Bill of Lading  
**IMDG UN Number :** Refer to Bill of Lading  
**IMDG Shipping Name :** Refer to Bill of Lading

**SECTION 15 : REGULATORY INFORMATION**

**Safety, health and environmental regulations specific for the product:**  
**Styrene-ethylene/butylene-styrene block copolymer:**  
TSCA Inventory Status: Listed  
Canada DSL: Listed  
**Benzoyl peroxide:**  
TSCA Inventory Status: Listed  
**Section 313:** EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.  
**Canada DSL:** Listed  
**EC Number:** 202-327-6  
**Bisphenol A diglycidyl ether resin:**
Diisodecyl adipate:
- TSCA Inventory Status: Listed
- Canada DSL: Listed
- EC Number: 500-033-5

Dipropylene glycol dibenzoate:
- TSCA Inventory Status: Listed
- Canada DSL: Listed
- EC Number: 248-299-9

Black iron oxide:
- TSCA Inventory Status: Listed
- Canada DSL: Listed
- EC Number: 215-277-5

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

HMIS Ratings:
- HMIS Health Hazard: 2*
- HMIS Fire Hazard: 2
- HMIS Reactivity: 2
- HMIS Personal Protection: X

SDS Creation Date: January 13, 2016
SDS Revision Date: January 27, 2016
SDS Revision Notes: GHS Update
SDS Author: Actio Corporation

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