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# SAFETY DATA SHEET

### A1293 BLACK

| Section 1. Identification  | on         |   |
|--|------------|---|
| GHS product identifier<br>Chemical name<br>CAS number<br>Other means of identification<br>Product type | :          | A1293 BLACK<br>Mixture<br>Mixture<br>FO20001529<br>liquid   |
| <u>Relevant identified uses of the subs</u><br>Product use   | tance<br>: | e or mixture and uses advised against<br>Industrial applications. Plastics.                                 |
| Supplier's details   | :          | <b>POLYONE CORPORATION</b><br>33587 Walker Road, Avon Lake, OH 44012<br>1 (440) 930-1000 or 1 (866) POLYONE |
| Emergency telephone number<br>(with hours of operation)  | :          | CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).                                |

## Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

| OSHA/HCS status                               | : | This material is considered hazardous by the OSHA Hazard<br>Communication Standard (29 CFR 1910.1200).   |
|---|---|--|
| Classification of the substance or<br>mixture | : | FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY (oral) - Category 4<br>SKIN CORROSION/IRRITATION - Category 2<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A<br>CARCINOGENICITY - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -<br>Category 3 |



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Supplemental label elements:None known.Hazards not otherwise classified:None known.

## Section 3. Composition/information on ingredients

Substance/mixture:MixtureChemical name:MixtureOther means of identification:FO20001529

CAS number/other identifiers

| Ingredient name  | %       | CAS number |
|--|---------|------------|
| Methyl ethyl ketone  | 30 - 60 | 78-93-3    |
| Benzene, methyl-   | 10 - 30 | 108-88-3   |
| Methyl isobutyl ketone   | 10 - 30 | 108-10-1   |
| 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters,<br>C9-rich | 1 - 5   | 68515-48-0 |
| Propylene oxide  | 1 - 5   | 75-56-9    |
| Carbon black   | 0.1 - 1 | 1333-86-4  |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

Description of necessary first aid measures

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| Eye contact  | : | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.   |
|--------------|---|---|
| Inhalation   | : | Remove victim to fresh air and keep at rest in a position comfortable<br>for breathing. If it is suspected that fumes are still present, the rescuer<br>should wear an appropriate mask or self-contained breathing<br>apparatus. If not breathing, if breathing is irregular or if respiratory<br>arrest occurs, provide artificial respiration or oxygen by trained<br>personnel. It may be dangerous to the person providing aid to give<br>mouth-to-mouth resuscitation. Get medical attention. If necessary, call<br>a poison center or physician. If unconscious, place in recovery<br>position and get medical attention immediately. Maintain an open<br>airway. Loosen tight clothing such as a collar, tie, belt or waistband.  |
| Skin contact | : | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.  |
| Ingestion    | : | Wash out mouth with water. Remove dentures if any. Remove victim<br>to fresh air and keep at rest in a position comfortable for breathing. If<br>material has been swallowed and the exposed person is conscious,<br>give small quantities of water to drink. Stop if the exposed person<br>feels sick as vomiting may be dangerous. Do not induce vomiting<br>unless directed to do so by medical personnel. If vomiting occurs, the<br>head should be kept low so that vomit does not enter the lungs. Get<br>medical attention. If necessary, call a poison center or physician.<br>Never give anything by mouth to an unconscious person. If<br>unconscious, place in recovery position and get medical attention<br>immediately. Maintain an open airway. Loosen tight clothing such as<br>a collar, tie, belt or waistband. |

#### Most important symptoms/effects, acute and delayed

| Potential acute health effects |  |
|--------------------------------|--|
|                                |  |

| Eye contact<br>Inhalation    | <ul> <li>Causes serious eye irritation.</li> <li>Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.</li> </ul> |
|------------------------------|--|
| Skin contact                 | : Causes skin irritation.  |
| Ingestion                    | : Harmful if swallowed. Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.                                |
| Over-exposure signs/symptoms |  |
| Eye contact                  | : Adverse symptoms may include the following: pain or irritation   |
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| Inhalation                        | :       | watering<br>redness<br>Adverse symptoms may include the following:  |
|-----------------------------------|---------|---|
| Innaiation                        | •       | nausea or vomiting  |
|                                   |         | headache  |
|                                   |         | drowsiness/fatigue  |
|                                   |         | dizziness/vertigo<br>unconsciousness  |
| Skin contact                      | :       | Adverse symptoms may include the following:   |
| Skii contact                      | •       | irritation  |
|                                   |         | redness   |
| Ingestion                         | :       | No specific data.   |
| Indication of immediate medical a | ttentio | n and special treatment needed, if necessary  |
| Notes to physician                | :       | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.   |
| Specific treatments               | :       | No specific treatment.  |
| Protection of first-aiders        | :       | No action shall be taken involving any personal risk or without<br>suitable training. If it is suspected that fumes are still present, the<br>rescuer should wear an appropriate mask or self-contained breathing<br>apparatus. It may be dangerous to the person providing aid to give |

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### Extinguishing media

| Suitable extinguishing media<br>Unsuitable extinguishing media | : | Use dry chemical, $CO_2$ , water spray (fog) or foam.<br>Do not use water jet.   |
|--|---|--|
| Specific hazards arising from the chemical                     | : | Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. |
| Hazardous thermal<br>decomposition products                    | : | May emit Hydrogen Chloride (HCl).<br>Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide  |
| Special protective actions for fire-                           | : | Promptly isolate the scene by removing all persons from the vicinity   |

mouth-to-mouth resuscitation.

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|                          |  |
|                          |  |
|                          |  |
| fighters                 | of the incident if there is a fire. No action shall be taken involving any |
|                          | personal risk or without suitable training. Move containers from fire      |

area if this can be done without risk. Use water spray to keep fireexposed containers cool. Fire-fighters should wear appropriate protective equipment and self-Special protective equipment for : fire-fighters contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

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

| For non-emergency personnel<br>For emergency responders | :     | No action shall be taken involving any personal risk or without<br>suitable training. Evacuate surrounding areas. Keep unnecessary and<br>unprotected personnel from entering. Do not touch or walk through<br>spilled material. Shut off all ignition sources. No flares, smoking or<br>flames in hazard area. Avoid breathing vapor or mist. Provide<br>adequate ventilation. Wear appropriate respirator when ventilation is<br>inadequate. Put on appropriate personal protective equipment.<br>If specialised clothing is required to deal with the spillage, take note of<br>any information in Section 8 on suitable and unsuitable materials. See<br>also the information in "For non-emergency personnel". |
|---|-------|---|
| Environmental precautions                               | :     | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).   |
| Methods and materials for containme                     | nt ai | nd cleaning up  |
| Small spill   | :     | Stop leak if without risk. Move containers from spill area. Use spark-<br>proof tools and explosion-proof equipment. Dilute with water and<br>mop up if water-soluble. Alternatively, or if water-insoluble, absorb<br>with an inert dry material and place in an appropriate waste disposal<br>container. Dispose of via a licensed waste disposal contractor.   |
| Large spill   | :     | Stop leak if without risk. Move containers from spill area. Use spark-<br>proof tools and explosion-proof equipment. Approach release from<br>upwind. Prevent entry into sewers, water courses, basements or<br>confined areas. Wash spillages into an effluent treatment plant or<br>proceed as follows. Contain and collect spillage with non-<br>combustible, absorbent material e.g. sand, earth, vermiculite or<br>diatomaceous earth and place in container for disposal according to<br>local regulations (see Section 13). Dispose of via a licensed waste<br>disposal contractor. Contaminated absorbent material may pose the<br>same hazard as the spilled product. Note: see Section 1 for emergency    |
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contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

#### Precautions for safe handling

| Protective measures   | : | Put on appropriate personal protective equipment (see Section 8).<br>Avoid exposure - obtain special instructions before use. Do not handle<br>until all safety precautions have been read and understood. Do not get<br>in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or<br>mist. Use only with adequate ventilation. Wear appropriate respirator<br>when ventilation is inadequate. Do not enter storage areas and<br>confined spaces unless adequately ventilated. Keep in the original<br>container or an approved alternative made from a compatible material,<br>kept tightly closed when not in use. Store and use away from heat,<br>sparks, open flame or any other ignition source. Use explosion-proof<br>electrical (ventilating, lighting and material handling) equipment. Use<br>only non-sparking tools. Take precautionary measures against<br>electrostatic discharges. Empty containers retain product residue and<br>can be hazardous. Do not reuse container. |
|---|---|---|
| Advice on general occupational<br>hygiene                       | : | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.   |
| Conditions for safe storage,<br>including any incompatibilities | : | Store in accordance with local regulations. Store in a segregated and<br>approved area. Store in original container protected from direct<br>sunlight in a dry, cool and well-ventilated area, away from<br>incompatible materials (see Section 10) and food and drink. Store in a<br>well-ventilated place. Eliminate all ignition sources. Separate from<br>oxidizing materials. Keep container tightly closed and sealed until<br>ready for use. Containers that have been opened must be carefully<br>resealed and kept upright to prevent leakage. Do not store in unlabeled<br>containers. Use appropriate containment to avoid environmental<br>contamination.   |

## Section 8. Exposure controls/personal protection

#### **Control parameters**

**Occupational exposure limits** 



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| Ingredient name     | Exposure limits   |  |  |  |
|---------------------|---|--|--|--|
| Methyl ethyl ketone | OSHA PEL 1989 (1989-03-01)  |  |  |  |
|                     | PEL: Permissible Exposure Level 590 mg/m3 200 ppm                       |  |  |  |
|                     | Pollutant concentration that should not be exceeded during              |  |  |  |
|                     | working hours and which workers are believed to be exposed              |  |  |  |
|                     | during a period of 15 minutes maximum, without experiencing: a)         |  |  |  |
|                     | irritation. b) chronic or irreversible tissue damage. c) dependent      |  |  |  |
|                     | toxic effects of exposure rate. d) Narcosis of sufficient magnitude     |  |  |  |
|                     | to increase susceptibility to accidents. e) The reduction of ability to |  |  |  |
|                     | get to safety by their own means. 885 mg/m3 300 ppm                     |  |  |  |
|                     | OSHA PEL (1993-06-30)   |  |  |  |
|                     | PEL: Permissible Exposure Level 590 mg/m3 200 ppm                       |  |  |  |
|                     | NIOSH REL (1994-06-01)  |  |  |  |
|                     | Time Weighted Average (TWA) 590 mg/m3 200 ppm                           |  |  |  |
|                     | Pollutant concentration that should not be exceeded during              |  |  |  |
|                     | working hours and which workers are believed to be exposed              |  |  |  |
|                     | during a period of 15 minutes maximum, without experiencing: a)         |  |  |  |
|                     | irritation. b) chronic or irreversible tissue damage. c) dependent      |  |  |  |
|                     | toxic effects of exposure rate. d) Narcosis of sufficient magnitude     |  |  |  |
|                     | to increase susceptibility to accidents. e) The reduction of ability to |  |  |  |
|                     | get to safety by their own means. 885 mg/m3 300 ppm                     |  |  |  |
|                     | ACGIH TLV (1994-09-01)  |  |  |  |
|                     | TLV-TWA: Threshold Limit Value - Time weighted average PEL:             |  |  |  |
|                     | Permissible Exposure Level 590 mg/m3 200 ppm                            |  |  |  |
|                     | TLV-STEL: Threshold Limit Value - Short Time Exposure Level             |  |  |  |
|                     | 885 mg/m3 300 ppm   |  |  |  |
| Benzene, methyl-    | OSHA PEL 1989 (1989-03-01)  |  |  |  |
| Domente, metalyr    | PEL: Permissible Exposure Level 375 mg/m3 100 ppm                       |  |  |  |
|                     | Pollutant concentration that should not be exceeded during              |  |  |  |
|                     | working hours and which workers are believed to be exposed              |  |  |  |
|                     | during a period of 15 minutes maximum, without experiencing: a)         |  |  |  |
|                     | irritation. b) chronic or irreversible tissue damage. c) dependent      |  |  |  |
|                     | toxic effects of exposure rate. d) Narcosis of sufficient magnitude     |  |  |  |
|                     | to increase susceptibility to accidents. e) The reduction of ability to |  |  |  |
|                     | get to safety by their own means. 560 mg/m3 150 ppm                     |  |  |  |
|                     | OSHA PEL Z2 (1993-06-30)  |  |  |  |
|                     | PEL: Permissible Exposure Level 200 ppm                                 |  |  |  |
|                     | Ceiling 300 ppm   |  |  |  |
|                     | Acceptable Maximum Peak (AMP) 500 ppm                                   |  |  |  |
|                     | NIOSH REL (1994-06-01)  |  |  |  |
|                     | Time Weighted Average (TWA) 375 mg/m3 100 ppm                           |  |  |  |
|                     | Pollutant concentration that should not be exceeded during              |  |  |  |
|                     | working hours and which workers are believed to be exposed              |  |  |  |
|                     | during a period of 15 minutes maximum, without experiencing: a)         |  |  |  |



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|                        | irritation. b) chronic or irreversible tissue damage. c) dependent<br>toxic effects of exposure rate. d) Narcosis of sufficient magnitude<br>to increase susceptibility to accidents. e) The reduction of ability to<br>get to safety by their own means. 560 mg/m3 150 ppm<br>ACGIH TLV (2006-11-17)<br>TLV-TWA: Threshold Limit Value - Time weighted average PEL:<br>Permissible Exposure Level 20 ppm   |
|------------------------|---|
| Methyl isobutyl ketone | OSHA PEL 1989 (1989-03-01)<br>PEL: Permissible Exposure Level 205 mg/m3 50 ppm<br>Pollutant concentration that should not be exceeded during<br>working hours and which workers are believed to be exposed<br>during a period of 15 minutes maximum, without experiencing: a)<br>irritation. b) chronic or irreversible tissue damage. c) dependent<br>toxic effects of exposure rate. d) Narcosis of sufficient magnitude<br>to increase susceptibility to accidents. e) The reduction of ability to<br>get to safety by their own means. 300 mg/m3 75 ppm<br>OSHA PEL (1993-06-30)<br>PEL: Permissible Exposure Level 410 mg/m3 100 ppm<br>NIOSH REL (1994-06-01)<br>Time Weighted Average (TWA) 205 mg/m3 50 ppm<br>Pollutant concentration that should not be exceeded during<br>working hours and which workers are believed to be exposed<br>during a period of 15 minutes maximum, without experiencing: a)<br>irritation. b) chronic or irreversible tissue damage. c) dependent<br>toxic effects of exposure rate. d) Narcosis of sufficient magnitude<br>to increase susceptibility to accidents. e) The reduction of ability to<br>get to safety by their own means. 300 mg/m3 75 ppm<br>ACGIH TLV (2009-11-30)<br>TLV-TWA: Threshold Limit Value - Time weighted average PEL:<br>Permissible Exposure Level 20 ppm<br>ACGIH TLV (1994-09-01)<br>TLV-STEL: Threshold Limit Value - Short Time Exposure Level 75<br>ppm |
| Propylene oxide        | OSHA PEL 1989 (1989-03-01)<br>PEL: Permissible Exposure Level 50 mg/m3 20 ppm<br>OSHA PEL (1993-06-30)<br>PEL: Permissible Exposure Level 240 mg/m3 100 ppm<br>NIOSH REL (1994-06-01)<br>ACGIH TLV (1996-05-18)<br>TLV-TWA: Threshold Limit Value - Time weighted average PEL:<br>Permissible Exposure Level 2 ppm  |



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| Carbon black  |   | OSHA PEL 1989 (1989-03-01)<br>PEL: Permissible Exposure Level 3.5 mg/m3<br>OSHA PEL (1993-06-30)<br>PEL: Permissible Exposure Level 3.5 mg/m3<br>NIOSH REL (1994-06-01)<br>Time Weighted Average (TWA) 3.5 mg/m3<br>Time Weighted Average (TWA)<br>ACGIH TLV (2010-12-06)<br>TLV-TWA: Threshold Limit Value - Time weighted average PEL:<br>Permissible Exposure Level 3 mg/m3 Form: Inhalable fraction  |
|---|---|--|
| Appropriate engineering controls<br>Environmental exposure controls | : | Use only with adequate ventilation. Use process enclosures, local<br>exhaust ventilation or other engineering controls to keep worker<br>exposure to airborne contaminants below any recommended or<br>statutory limits. The engineering controls also need to keep gas, vapor<br>or dust concentrations below any lower explosive limits. Use<br>explosion-proof ventilation equipment.<br>Emissions from ventilation or work process equipment should be<br>checked to ensure they comply with the requirements of<br>environmental protection legislation. In some cases, fume scrubbers,<br>filters or engineering modifications to the process equipment will be<br>necessary to reduce emissions to acceptable levels. |
| Individual protection measures                                      |   |  |
| Hygiene measures<br>Eye/face protection                             | : | Wash hands, forearms and face thoroughly after handling chemical<br>products, before eating, smoking and using the lavatory and at the end<br>of the working period. Appropriate techniques should be used to<br>remove potentially contaminated clothing. Wash contaminated<br>clothing before reusing. Ensure that eyewash stations and safety<br>showers are close to the workstation location.<br>Safety eyewear complying with an approved standard should be used<br>when a risk assessment indicates this is necessary to avoid exposure to   |
| Skin protection   |   | liquid splashes, mists, gases or dusts. If contact is possible, the<br>following protection should be worn, unless the assessment indicates a<br>higher degree of protection: chemical splash goggles.   |
| _   |   | Chemical-resistant, impervious gloves complying with an approved   |
| Hand protection   | : | standard should be worn at all times when handling chemical products<br>if a risk assessment indicates this is necessary. Considering the<br>parameters specified by the glove manufacturer, check during use that<br>the gloves are still retaining their protective properties. It should be   |

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noted that the time to breakthrough for any glove material may be

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|                        |   | different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.  |
|------------------------|---|--|
| Body protection        | : | Personal protective equipment for the body should be selected based<br>on the task being performed and the risks involved and should be<br>approved by a specialist before handling this product., When there is a<br>risk of ignition from static electricity, wear anti-static protective<br>clothing., For the greatest protection from static discharges, clothing<br>should include anti-static overalls, boots and gloves. |
| Other skin protection  | : | Appropriate footwear and any additional skin protection measures<br>should be selected based on the task being performed and the risks<br>involved and should be approved by a specialist before handling this<br>product.   |
| Respiratory protection | : | Use a properly fitted, air-purifying or air-fed respirator complying<br>with an approved standard if a risk assessment indicates this is<br>necessary. Respirator selection must be based on known or anticipated<br>exposure levels, the hazards of the product and the safe working limits<br>of the selected respirator.  |

## Section 9. Physical and chemical properties

#### Appearance

| Physical state            | : | liquid [liquid]               |
|---------------------------|---|-------------------------------|
| Color                     | - | BLACK                         |
| Odor                      | : | Not available.                |
| 0.000                     | • |                               |
| Odor threshold            | : | Not available.                |
| рН                        | : | Not available.                |
| Melting point             | : | Not available.                |
| Boiling point             | : | Not available.                |
| Flash point               | : | Closed cup: 4.4 °C (39.92 °F) |
|                           |   |                               |
| Burning time              | : | Not available.                |
| Burning rate              | : | Not available.                |
| Evaporation rate          | : | Not available.                |
| Flammability (solid, gas) | : | Not available.                |
| Lower and upper explosive | : | Lower: Not available.         |
| (flammable) limits        |   | Upper: Not available.         |
| Vapor pressure            | : | Not available.                |
| Vapor density             | : | Not available.                |
| Relative density          | : | Not available.                |
| Solubility                | : | Not available.                |
| Solubility in water       | : | Not available.                |
| Partition coefficient: n- | : | Not available.                |



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octanol/water

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| octanoi/ watci            |   |                           |
|---------------------------|---|---------------------------|
| Auto-ignition temperature | : | Not available.            |
| Decomposition temperature | : | Not available.            |
| SADT                      | : | Not available.            |
| Viscosity                 | : | Dynamic: Not available.   |
| -                         |   | Kinematic: Not available. |
|                           |   |                           |

# Section 10. Stability and reactivity

| Reactivity                          | : | No specific test data related to reactivity available for this product or its ingredients.  |
|-------------------------------------|---|---|
| Chemical stability                  | : | Stable under recommended storage and handling conditions (see Section 7).   |
| Possibility of hazardous reactions  | : | Under normal conditions of storage and use, hazardous reactions will not occur.   |
| Conditions to avoid                 | : | Avoid all possible sources of ignition (spark or flame). Do not<br>pressurize, cut, weld, braze, solder, drill, grind or expose containers to<br>heat or sources of ignition. |
| Incompatible materials              | : | Avoid contact with acetal homopolymers and acetyl homopolymers<br>during processing.<br>Reactive or incompatible with the following materials:<br>oxidizing materials         |
| Hazardous decomposition<br>products | : | Under normal conditions of storage and use, hazardous decomposition products should not be produced.  |

## Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

#### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result          | Species | Dose        | Exposure |
|-------------------------|-----------------|---------|-------------|----------|
| Methyl ethyl ketone     |                 |         |             |          |
|                         | LD50 Oral       | Rat     | 2,737 mg/kg | -        |
|                         | LC50 Inhalation | Rat     | 24 mg/l     | 8 h      |
|                         | LD50 Dermal     | Rabbit  | 6,480 mg/kg | -        |
| Benzene, methyl-        |                 |         |             |          |
| •                       | LD50 Oral       | Rat     | 636 mg/kg   | -        |
|                         | LC50 Inhalation | Rat     | 49 mg/l     | 4 h      |
| Methyl isobutyl ketone  |                 |         | · · · · ·   | ·        |



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|                               | LD50 Oral   | Rat | 2,080 mg/kg  | -   |  |  |  |  |  |
|-------------------------------|---|-----|--------------|-----|--|--|--|--|--|
|                               | LD50 Oral   | Rat | 4,600 mg/kg  | -   |  |  |  |  |  |
| 1,2-Benzenedicarboxylic acid, | 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich |     |              |     |  |  |  |  |  |
|                               | LD50 Oral   | Rat | 10,000 mg/kg | -   |  |  |  |  |  |
| Propylene oxide               |   |     |              |     |  |  |  |  |  |
|                               | LD50 Oral   | Rat | 380 mg/kg    | -   |  |  |  |  |  |
|                               | LC50 Inhalation   | Rat | 4000 ppm     | 4 h |  |  |  |  |  |
| Carbon black                  |   |     |              |     |  |  |  |  |  |
|                               | LD50 Oral   | Rat | 15,400 mg/kg | -   |  |  |  |  |  |
|                               |   |     |              |     |  |  |  |  |  |

Conclusion/Summary

: Mixture.Not fully tested.

Irritation/Corrosion

| Product/ingredient name | Result        | Species | Score | Exposure  | Observation |
|-------------------------|---------------|---------|-------|-----------|-------------|
| Methyl ethyl ketone     | Skin -        | Rabbit  |       | 24 hrs    | -           |
|                         | Moderate      |         |       |           |             |
|                         | irritant      |         |       |           |             |
| Benzene, methyl-        | Skin - Mild   | Pig     |       | 24 hrs    | -           |
|                         | irritant      |         |       |           |             |
|                         | Skin - Mild   | Rabbit  |       |           | -           |
|                         | irritant      |         |       |           |             |
|                         | Skin -        | Rabbit  |       |           | -           |
|                         | Moderate      |         |       |           |             |
|                         | irritant      |         |       |           |             |
|                         | Skin -        | Rabbit  |       | 24 hrs    | -           |
|                         | Moderate      |         |       |           |             |
|                         | irritant      |         |       |           |             |
|                         | Eyes - Mild   | Rabbit  |       |           | -           |
|                         | irritant      |         |       |           |             |
|                         | Eyes - Severe | Rabbit  |       | 24 hrs    | -           |
|                         | irritant      |         |       |           |             |
|                         | Eyes - Mild   | Rabbit  |       | 0.008 hrs | -           |
|                         | irritant      |         |       |           |             |
| Methyl isobutyl ketone  | Eyes -        | Rabbit  |       | 24 hrs    | -           |
|                         | Moderate      |         |       |           |             |
|                         | irritant      |         |       |           |             |
|                         | Skin - Mild   | Rabbit  |       | 24 hrs    | -           |
|                         | irritant      |         |       |           |             |
|                         | Eyes - Severe | Rabbit  |       |           | -           |
|                         | irritant      |         |       |           |             |
| 1,2-Benzenedicarboxylic | Eyes - Mild   | Rabbit  |       |           | -           |
| acid, di-C8-10-branched | irritant      |         |       |           |             |
| alkyl esters, C9-rich   |               |         |       |           |             |
| Propylene oxide         | Eyes -        | Rabbit  |       | 24 hrs    | -           |



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|   | Madamata                  | I               | 1                |            |      |
|---|---------------------------|-----------------|------------------|------------|------|
|   | Moderate                  |                 |                  |            |      |
|   | irritant                  | 5.111           |                  |            |      |
|   | Skin -                    | Rabbit          |                  |            | -    |
|   | Moderate                  |                 |                  |            |      |
|   | irritant                  |                 |                  |            |      |
|   | Skin - Severe             | Rabbit          | C                | 0.1 hrs    | -    |
|   | irritant                  |                 |                  |            |      |
|   | Eyes - Severe<br>irritant | Rabbit          |                  |            | -    |
| <u> </u>                                    | irritant                  |                 |                  |            |      |
| Conclusion/Summary                          |                           |                 | 1 4 4 4          |            |      |
| Skin  |                           | lixture.Not ful |                  |            |      |
| Eyes  |                           | lixture.Not ful |                  |            |      |
| Respiratory                                 | : M                       | lixture.Not ful | ly tested.       |            |      |
| Sensitization                               |                           |                 |                  |            |      |
| Conclusion/Summary                          |                           |                 |                  |            |      |
| Skin  | : M                       | lixture.Not ful | ly tested.       |            |      |
| Respiratory                                 |                           | lixture.Not ful |                  |            |      |
| yy  | • 10                      |                 | -j               |            |      |
| <b>Mutagenicity</b>                         |                           |                 |                  |            |      |
| Conclusion/Summary                          | : M                       | lixture.Not ful | ly tested.       |            |      |
| <b>Carcinogenicity</b>                      |                           |                 |                  |            |      |
| Conclusion/Summary<br><u>Classification</u> | : M                       | lixture.Not ful | ly tested.       |            |      |
| Product/ingredient                          | OSHA                      | IARC            | NTP              |            |      |
| name  |                           | _               |                  |            |      |
| Benzene, methyl-                            |                           | 3               |                  |            |      |
| Methyl isobutyl ketone                      |                           | 2B              |                  |            |      |
| Propylene oxide                             |                           | 2B              |                  |            |      |
| Carbon black                                |                           | 2B              |                  |            |      |
| <b>Reproductive toxicity</b>                |                           | ·               |                  |            |      |
| Conclusion/Summary                          | : M                       | lixture.Not ful | ly tested.       |            |      |
| <b>Teratogenicity</b>                       |                           |                 |                  |            |      |
| Conclusion/Summary                          | : M                       | lixture.Not ful | ly tested.       |            |      |
| Specific target organ toxici                | ty (single exposu         | re)             |                  |            |      |
| Product/ingredient name                     | Category                  |                 | oute of exposure | Target or  | gans |
|   | Current                   |                 | sale of exposure | I unget th | 8    |



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| Methyl ethyl ketone                                    | Category 3  |  |  | Narcotic effects                       |
|--|---|--|--|--|
| Methyl isobutyl ketone                                 | Category 3  |  |  | Respiratory tract irritation           |
| <u>Specific target organ toxicit</u><br>Not available. | y (repeated ex  | posure)  |  |  |
| Aspiration hazard<br>Not available.                    |   |  |  |  |
| Information on the likely ro<br>exposure               | utes of : 1   | Not available  | 2.   |  |
| Potential acute health effects                         | <u>s</u>  |  |  |  |
| Eye contact<br>Inhalation                              | : (   | Can cause ce<br>drowsiness a   | nd dizziness.  | CNS) depression. May cause             |
| Skin contact<br>Ingestion                              |   | Causes skin i<br>Harmful if sv   | wallowed., Can cause co  | entral nervous system (CNS)            |
|  | (   | depression., ]   | Irritating to mouth, thro  | at and stomach.                        |
| Symptoms related to the phy                            |   | -  | -  |  |
| <u>Symptoms related to the phy</u><br>Eye contact      | ysical, chemica<br>: 4<br>I   | al and toxico<br>Adverse sym<br>pain or irritat<br>watering  | logical characteristics  |  |
|  | ysical, chemica<br>: 4<br>I<br>V<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I | Adverse sym<br>pain or irritat<br>watering<br>redness<br>Adverse sym<br>nausea or von<br>headache<br>drowsiness/fa<br>dizziness/ver  | logical characteristics<br>ptoms may include the<br>ion<br>ptoms may include the<br>miting<br>atigue<br>tigo   | following:                             |
| Eye contact  | ysical, chemica<br>: 4<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>! | Adverse sym<br>pain or irritat<br>watering<br>redness<br>Adverse sym<br>nausea or von<br>headache<br>drowsiness/fa<br>dizziness/ver<br>unconsciousr<br>Adverse sym<br>irritation                             | logical characteristics<br>ptoms may include the<br>ion<br>ptoms may include the<br>miting<br>atigue<br>tigo   | following:<br>following:               |
| Eye contact<br>Inhalation                              | ysical, chemica<br>: 4<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>! | Adverse sym<br>pain or irritat<br>watering<br>redness<br>Adverse sym<br>nausea or vor<br>headache<br>drowsiness/fa<br>dizziness/ver<br>unconsciousr<br>Adverse sym   | logical characteristics<br>ptoms may include the<br>tion<br>ptoms may include the<br>miting<br>atigue<br>tigo<br>ness<br>ptoms may include the                 | following:<br>following:               |
| Eye contact<br>Inhalation<br>Skin contact<br>Ingestion | ysical, chemica<br>: 4<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>! | Adverse sym<br>pain or irritat<br>watering<br>redness<br>Adverse sym<br>nausea or von<br>headache<br>drowsiness/fa<br>dizziness/ver<br>unconsciousr<br>Adverse sym<br>irritation<br>redness<br>No specific d | <b>logical characteristics</b><br>ptoms may include the<br>tion<br>ptoms may include the<br>miting<br>atigue<br>tigo<br>ness<br>ptoms may include the<br>lata. | following:<br>following:<br>following: |
| Inhalation<br>Skin contact                             | ysical, chemica<br>: 4<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>!<br>! | Adverse sym<br>pain or irritat<br>watering<br>redness<br>Adverse sym<br>nausea or von<br>headache<br>drowsiness/fa<br>dizziness/ver<br>unconsciousr<br>Adverse sym<br>irritation<br>redness<br>No specific d | <b>logical characteristics</b><br>ptoms may include the<br>tion<br>ptoms may include the<br>miting<br>atigue<br>tigo<br>ness<br>ptoms may include the<br>lata. | following:<br>following:<br>following: |

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| Potential delayed effects                                | : | Not available.   |
|--|---|--|
| Long term exposure                                       |   |  |
| Potential immediate effects<br>Potential delayed effects | : | Not available.<br>Not available.   |
| Potential chronic health effects                         |   |  |
| Conclusion/Summary                                       | : | Mixture.Not fully tested.  |
| General  | : | No known significant effects or critical hazards.                                      |
| Carcinogenicity  | : | Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. |
| Mutagenicity   | : | No known significant effects or critical hazards.                                      |
| Teratogenicity   | : | No known significant effects or critical hazards.                                      |
| Developmental effects                                    | : | No known significant effects or critical hazards.                                      |
| Fertility effects  | : | No known significant effects or critical hazards.                                      |

#### Numerical measures of toxicity

#### Acute toxicity estimates

| Route               | ATE value     |
|---------------------|---------------|
| Oral                | 1,675.3 mg/kg |
| Route               | ATE value     |
| Inhalation (gases)  | 186,291.1 ppm |
| Route               | ATE value     |
| Inhalation (vapors) | 63.29 mg/l    |

## Section 12. Ecological information

#### **Toxicity**

| Product/ingredient name | Result                                   | Species                              | Exposure |
|-------------------------|--|--------------------------------------|----------|
| Methyl ethyl ketone     |  |                                      |          |
|                         | Acute LC50 3,220,000 µg/l Fresh water    | Fish - Fathead minnow                | 96 h     |
|                         | Acute LC50 5,600 mg/l Fresh<br>water     | Fish - Western<br>mosquitofish       | 96 h     |
|                         | Acute EC50 5,091,000 µg/l Fresh<br>water | Aquatic invertebrates.<br>Water flea | 48 h     |



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|                        | Acute EC50 > 500,000 µg/l Marine water | Aquatic plants - Diatom                 | 96 h |
|------------------------|--|---|------|
|                        | Acute EC50 > 500 mg/l Fresh<br>water   | Aquatic plants - Green algae            | 96 h |
| Benzene, methyl-       |  |   |      |
|                        | Acute LC50 6,780 µg/l Fresh water      | Fish - Rainbow<br>trout,donaldson trout | 96 h |
|                        | Acute LC50 5,800 µg/l Fresh water      | Fish - Rainbow<br>trout,donaldson trout | 96 h |
|                        | Acute LC50 5,500 µg/l Fresh water      | Fish - Coho<br>salmon,silver salmon     | 96 h |
|                        | Acute LC50 6,410 µg/l Marine water     | Fish - Pink salmon                      | 96 h |
|                        | Acute EC50 6,780 µg/l Fresh water      | Fish - Rainbow<br>trout,donaldson trout | 96 h |
|                        | Acute EC50 19,600 µg/l Fresh<br>water  | Aquatic invertebrates.<br>Water flea    | 48 h |
|                        | Acute EC50 6,000 µg/l Fresh water      | Aquatic invertebrates.<br>Water flea    | 48 h |
|                        | Acute LC50 86,300 µg/l Fresh<br>water  | Aquatic invertebrates.<br>Water flea    | 48 h |
|                        | Acute EC50 6,560 µg/l Fresh water      | Aquatic invertebrates.<br>Water flea    | 48 h |
|                        | Acute EC50 6,880 µg/l Fresh water      | Aquatic invertebrates.<br>Water flea    | 48 h |
|                        | Acute EC50 12,500 µg/l Fresh<br>water  | Aquatic plants - Green algae            | 72 h |
|                        | Chronic NOEC 2 mg/l Fresh water        | Aquatic invertebrates.<br>Water flea    | 21 d |
|                        | Chronic NOEC 1,000 µg/l Fresh<br>water | Aquatic invertebrates.<br>Water flea    | 21 d |
| Methyl isobutyl ketone | · ·                                    |   |      |
|                        | Acute LC50 505,000 µg/l Fresh<br>water | Fish - Fathead minnow                   | 96 h |
|                        | Acute LC50 537,000 µg/l Fresh<br>water | Fish - Fathead minnow                   | 96 h |
|                        | Acute LC50 540,000 µg/l Fresh<br>water | Fish - Fathead minnow                   | 96 h |
|                        | Chronic NOEC 168 mg/l Fresh<br>water   | Fish - Fathead minnow                   | 33 d |
|                        | Chronic NOEC 78 mg/l Fresh<br>water    | Aquatic invertebrates.<br>Water flea    | 21 d |
| Propylene oxide        |  | 1                                       |      |
|                        | Acute LC50 141 mg/l Fresh water        | Fish - Western                          | 96 h |



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|                           |                                 | mosquitofish           |      |
|---------------------------|---------------------------------|------------------------|------|
|                           | Acute LC50 215 mg/l Fresh water | Fish - Bluegill        | 96 h |
|                           | Acute LC50 89 mg/l Marine water | Fish - Striped mullet  | 96 h |
| Carbon black              |                                 |                        |      |
|                           | Acute EC50 37.563 mg/l Fresh    | Aquatic invertebrates. | 48 h |
|                           | water                           | Water flea             |      |
|                           | Acute LC50 61.547 mg/l Fresh    | Aquatic invertebrates. | 48 h |
|                           | water                           | Water flea             |      |
| <b>Conclusion/Summary</b> | : Not available.                |                        |      |

**Conclusion/Summary** 

Not available.

#### Persistence and degradability

**Conclusion/Summary** 

Not available.

:

#### **Bioaccumulative potential**

| Product/ingredient name                            | LogPow | BCF   | Potential |
|--|--------|-------|-----------|
| Methyl ethyl ketone                                | 0.29   | -     | low       |
| Benzene, methyl-                                   | 2.73   | 90.00 | low       |
| Methyl isobutyl ketone                             | 1.9    | -     | high      |
| 1,2-Benzenedicarboxylic<br>acid, di-C8-10-branched | 8.8    | 3.00  | low       |
| alkyl esters, C9-rich                              |        |       |           |
| Propylene oxide                                    | 1      | 1.00  | low       |

#### **Mobility in soil**

| Soil/water partition coefficient | : | Not available.                                    |
|----------------------------------|---|---|
| (KOC)                            |   |   |
| Other adverse effects            | : | No known significant effects or critical hazards. |

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be



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disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### United States - RCRA Acute hazardous waste "P" List: Not listed

| United States - RCRA Toxic hazardous waste "U" List: Listed |          |        |                  |  |
|---|----------|--------|------------------|--|
| Ingredient  | CAS #    | Status | Reference number |  |
| Methyl ethyl ketone   | 78-93-3  | Listed |                  |  |
| Benzene, methyl-  | 108-88-3 | Listed |                  |  |
| Methyl isobutyl ketone                                      | 108-10-1 | Listed |                  |  |

## Section 14. Transport information

| U.S. DOT Classification |                                       |
|-------------------------|---------------------------------------|
| Proper Shipping Name:   | Flammable liquids, n.o.s.             |
| Technical Name:         | butanone,toluene                      |
| Hazard Class / Division | 3                                     |
| UN Number               | UN1993                                |
| Packing Group           | II                                    |
| Label Required          | 3                                     |
| ICAO/IATA               | Consult mode specific transport rules |
| IMO/IMDG (maritime)     | Consult mode specific transport rules |

## Section 15. Regulatory information

| U.S. Federal regulations | : United States - TSCA 12(b) - Chemical export notification: None |
|--------------------------|---|
|                          | of the components are listed.                                     |
|                          | United States - TSCA 4(a) - Final Test Rules: Listed Methyl       |
|                          | isobutyl ketone   |
|                          | 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters,     |
|                          | C9-rich   |
|                          |   |

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United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 5(a)2 - Final significant new use rules: Not listed United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Benzene, methyl-Zinc stearate United States - EPA Clean water act (CWA) section 311 -Hazardous substances: Listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Listed Propylene oxide United States - Department of commerce - Precursor chemical: Not listed Listed

| Clean Air Act Section 112(b)<br>Hazardous Air Pollutants (HAPs) | : |
|---|---|
| Clean Air Act Section 602 Class I                               | : |
| Substances<br>Clean Air Act Section 602 Class II                | : |
| Substances<br>DEA List I Chemicals (Precursor                   |   |
| Chemicals)  | • |
| DEA List II Chemicals (Essential<br>Chemicals)                  | : |

Not listed

Not listed

Not listed

Listed



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#### US. EPA CERCLA Hazardous Substances (40 CFR 302)

:

| Chemical Name    | CAS-No.  | RQ for component      |
|------------------|----------|-----------------------|
| Propylene oxide  | 75-56-9  | 100 lb(s)<br>45.4 kg  |
| _                |          |                       |
| Benzene, methyl- | 108-88-3 | 1,000 lb(s)<br>454 kg |
|                  |          | 454 kg                |
|                  |          | 1,000 lb(s)           |
|                  |          |                       |

#### SARA 311/312

Classification

Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

#### **Composition/information on ingredients**

| Name  | %       | Classification |
|---|---------|----------------|
| Methyl ethyl ketone   | 30 - 60 | F, AH          |
| Benzene, methyl-  | 10 - 30 | F, AH          |
| Methyl isobutyl ketone  | 10 - 30 | F, AH          |
| 1,2-Benzenedicarboxylic acid, di-<br>C8-10-branched alkyl esters, C9-<br>rich | 1 - 5   | АН             |
| Propylene oxide   | 1 - 5   | F, AH, CH      |
| Carbon black  | 0.1 - 1 | СН             |

#### SARA 313

|                       | Product name           | CAS number | %       |
|-----------------------|------------------------|------------|---------|
| Form R - Reporting    | Benzene, methyl-       | 108-88-3   | 10 - 30 |
| requirements          |                        |            |         |
|                       | Methyl isobutyl ketone | 108-10-1   | 10 - 30 |
|                       | Propylene oxide        | 75-56-9    | 1 - 5   |
| Supplier notification | Benzene, methyl-       | 108-88-3   | 10 - 30 |



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| Methyl isobutyl ketone | 108-10-1 | 10 - 30 |
|------------------------|----------|---------|
|                        |          |         |
| Propylene oxide        | 75-56-9  | 1 - 5   |
|                        |          |         |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

| State regulations |   |  |
|-------------------|---|--|
| Massachusetts     | : | The following components are listed:<br>Methyl ethyl ketone<br>Benzene, methyl-<br>Methyl isobutyl ketone<br>Propylene oxide                 |
| New York          | : | The following components are listed:<br>Methyl ethyl ketone<br>Benzene, methyl-<br>Methyl isobutyl ketone<br>Propylene oxide                 |
| New Jersey        | : | The following components are listed:<br>Methyl ethyl ketone<br>Benzene, methyl-<br>Methyl isobutyl ketone<br>Propylene oxide<br>Carbon black |
| Pennsylvania      | : | The following components are listed:<br>Methyl ethyl ketone  |
|                   |   | Benzene, methyl-<br>Methyl isobutyl ketone   |
|                   |   | Propylene oxide  |
|                   |   | Carbon black   |

#### California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

| United States inventory (TSCA 8b) | : | All components are listed or exempted. |
|-----------------------------------|---|--|
| Canada inventory                  | : | All components are listed or exempted. |



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#### **International regulations**

| International lists                                      | : | <ul> <li>Australia inventory (AICS): All components are listed or exempted.</li> <li>Taiwan inventory (CSNN): All components are listed or exempted.</li> <li>Malaysia Inventory (EHS Register): Not determined.</li> <li>EINECS: All components are listed or exempted.</li> <li>Japan inventory: Not determined.</li> <li>China inventory (IECSC): All components are listed or exempted.</li> <li>Korea inventory: All components are listed or exempted.</li> <li>New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.</li> <li>Philippines inventory (PICCS): All components are listed or exempted.</li> </ul> |
|--|---|--|
| Chemical Weapons Convention<br>List Schedule I Chemicals | : | Not listed   |
| <b>Chemical Weapons Convention</b>                       | : | Not listed   |
| List Schedule II Chemicals                               |   |  |
| <b>Chemical Weapons Convention</b>                       | : | Not listed   |
| List Schedule III Chemicals                              |   |  |

## Section 16. Other information

| <u>History</u>                     |   |   |
|------------------------------------|---|---|
| Date of printing                   | : | 03/31/2015  |
| Date of issue/Date of revision     | : | 03/30/2015  |
| Date of previous issue             | : | 03/12/2014  |
| Version                            | : | 1.4   |
| Key to abbreviations<br>References | : | ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of<br>Chemicals<br>IATA = International Air Transport Association<br>IBC = Internediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL 73/78 = International Convention for the Prevention of Pollution<br>From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine<br>pollution)<br>UN = United Nations<br>Not available. |
|                                    |   |   |

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-



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named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.