Section 1.1: Identification

Chemical Name/Synonyms: Solvent mixture containing Toluene, Tetrahydrofuran, Methyl ethyl ketone, and Propylene oxide
Product or Trade Name: MICCROSHIELD
CAS #: 108-88-3; 109-99-9; 78-93-3; 75-56-9
Chemical Formula: mixture

Section 1.2: Relevant Uses/Restrictions

Masking aid and protectant in microscopy laboratory

Section 1.3: Supplier of the Safety Data Sheet

SPI Supplies Division
Structure Probe, Inc.
206 Garfield Avenue, West Chester, PA 19380-4512 USA
Phone: 1-(610)-436-5400 Fax: 1-(610)-436-5755
sds@2spi.com
http://www.2spi.com
Manufacturer's CAGE: 1P573

Section 1.4: Emergency telephone number

Emergencies
Contacting CHEMTREC:

24 Hour Emergency Use Only #s ...
Worldwide phone: 1-(703)-741-5970
Toll-free phone: 1-(800)-424-9300 USA + Canada only

Section 2: Hazard Identification

2.1 Classification of the substance

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity – Oral (Category 4)
Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 2)
Germ cell mutagenicity (Category 1B)
Carcinogenicity (Category 1B)
Reproductive toxicity (Category 2)
Specific target organ toxicity (single exposure) (Category 3)
Specific target organ toxicity (repeated exposure) (Category 2)
Aspiration toxicity (Category 1)
Flammable Liquids (Category 2)

2.2 Label elements

Pictogram

Signal Word: Danger

Hazard statements:
H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H340 May cause genetic defects
H350 May cause cancer
H361 Suspected of damaging fertility or the unborn child
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H373 May cause damage to organs through prolonged or repeated exposure
H304 May be fatal if swallowed and enters airways
H225 Highly flammable liquid and vapor

Precautionary statements:
P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P281 Use personal protective equipment as required
P264 Wash face, hands and any exposed skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P280 Wear protective gloves/protective clothing/eye protection/face protection
P260 Do not breathe dust/fume/gas/mist/vapors/spray
P271 Use only outdoors or in a well-ventilated area
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 equipment
P242 Use only non-sparking tools
P243 Take precautionary measures against static discharge
P235 Keep cool
P308+309 If exposed or concerned: Get medical advice/attention
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313 If eye irritation persists: Get medical advice/attention.
P332+313 If skin irritation occurs: Get medical advice/attention.
P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse with water/shower.
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331 Do not induce vomiting
P330 Rinse mouth
P370+380 IN CASE OF FIRE: Use CO₂, dry chemical, or foam for extinction
P405 Store locked up
P403+233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to an approved waste disposal plant

2.3 Other Hazards:
Harmful to aquatic life with long lasting effects.

Hazardous Material Information System USA
Health ....................... 3
Fire Hazard ................... 3
Reactivity ....................... 0
Personal Protection ......

NFPA Rating (estimated)
Health ....................... 3
Flammability.................... 3
Reactivity ....................... 0

Section 3: Composition

Composition of ingredients:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>EC#</th>
<th>Weight Percent</th>
<th>RTECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>203-625-9</td>
<td>40-50%</td>
<td>XS5250000</td>
</tr>
<tr>
<td>Tetrahydrofuran</td>
<td>109-99-9</td>
<td>203-726-8</td>
<td>15-25%</td>
<td>LU5950000</td>
</tr>
<tr>
<td>Methyl ethyl ketone</td>
<td>78-93-3</td>
<td>201-159-0</td>
<td>5-15%</td>
<td>EL6475000</td>
</tr>
<tr>
<td>Propylene oxide</td>
<td>75-56-9</td>
<td>200-879-2</td>
<td>0.5-1.5%</td>
<td>TZ2975000</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

4.1 Description of first aid measures:

General Information: If exposed or concerned: Get medical advice/attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician if you feel unwell.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

Skin Contact: Flush with water. Take off contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if irritation occurs.

Ingestion: Do not induce vomiting. Call a physician or poison control center immediately. Rinse mouth.
4.2 Most important symptoms and effects, both acute and delayed:

**Symptoms:** Skin contact can lead to drying, defatting, itching, stinging and irritation. Prolonged contact may cause painful stinging or burning of eyes and lids, watering of eye, and irritation. Prolonged breathing of vapors may cause nausea, headache, weakness and/or dizziness. May cause nausea, vomiting, stomach ache, and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed:

**Notes to Physician:** Treat symptomatically.

### Section 5: Fire Fighting Measures

5.1 Suitable extinguishing media:

- Carbon dioxide (CO\(_2\)); Dry chemical; Foam

5.2 Special hazards arising from the substance or mixture:

- Highly flammable liquid and vapor.

**Hazardous combustion products:** Carbon monoxide.

**Sensitivity to mechanical impact:** Not available.

**Sensitivity to static discharge:** Take precautionary measures against static discharge.

5.3 Advice for firefighters

**Special protective equipment and precautions for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### Section 6: Accidental Release Measures

6.1 Personal precautions:

- Use personal protective equipment as required.
- Remove all sources of ignition.

6.2 Environmental precautions:

- See Section 12 for additional Ecological Information.

6.3 Methods and material for containment and cleaning up:

- **Methods for containment:** Prevent further leakage or spillage if safe to do so.
- **Methods for Clean-Up:** Absorb spillage with non-combustible, absorbent material.

6.4 Reference to other sections:

- See Section 7 for information on safe handling.
- See Section 13 for information on disposal.

### Section 7: Handling and Storage

7.1 Precautions for safe handling

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protection recommended in Section 8.
- Wash face, hands, and any exposed skin thoroughly after handling.
Avoid breathing vapors or mists.
Ground/bond container and receiving equipment.
Use spark-proof tools and explosion-proof equipment.
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Use only in well-ventilated areas.
Do not eat, drink or smoke when using this product.
Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities:
Storage conditions:
Keep containers tightly closed in a dry, cool and well-ventilated place.
Store locked up.
Incompatible Materials:
Strong oxidizing agents.

7.3 Specific end uses
Masking aid and protectant in microscopy laboratory

This product is not being offered for clinical or diagnostic applications, agricultural uses or for human or animal consumption.

Section 8: Exposure Controls and Personal Protection

8.1 Control parameter and Personal Protection

Workplace exposure guidelines:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene 108-88-3</td>
<td>TWA: 20 ppm</td>
<td></td>
<td>IDLH: 500 ppm</td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 100 ppm</td>
<td>TWA: 100 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 375 mg/m³</td>
<td>TWA: 375 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 150 ppm</td>
<td>STEL: 150 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 560 mg/m³</td>
<td>STEL: 560 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ceiling: 300 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA: 50 ppm</td>
<td>TWA: 590 mg/m³</td>
<td>TWA: 200 ppm</td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 200 ppm</td>
<td>TWA: 590 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 590 mg/m³</td>
<td>STEL: 250 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 250 ppm</td>
<td>STEL: 735 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 735 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methyl ethyl ketone 78-93-3</td>
<td>STEL: 300 ppm</td>
<td>TWA: 200 ppm</td>
<td>IDLH: 3000 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 200 ppm</td>
<td>TWA: 590 mg/m³</td>
<td>TWA: 200 ppm</td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 200 ppm</td>
<td>TWA: 590 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 590 mg/m³</td>
<td>STEL: 300 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 300 ppm</td>
<td>STEL: 885 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 885 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propylene oxide 75-56-9</td>
<td>TWA: 2ppm</td>
<td>TWA: 100 ppm</td>
<td>IDLH: 400 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 240 mg/m³</td>
<td>TWA: 20 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 50 mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Biological limit values: No information available.
8.2 Exposure controls

8.2.1 Appropriate engineering controls:
Apply technical measures to comply with the occupational exposure limits.

8.2.2 Individual protection measures:
Eye/Face Protection: Wear approved safety goggles.

Skin and Body Protection: Wear chemical resistant, impermeable gloves, long sleeved shirt and long pants, protective shoes or boots.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations: Do not eat, drink or smoke when using this product.

8.2.3 Environmental exposure controls:
No additional relevant information available.

---

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State: Liquid
Appearance: Not determined
Odor: Ketone
Odor threshold: Not determined
pH: Not determined
Melting point/Freezing point: Not determined
Boiling point/Boiling point range: 90 °C (194 °F) [at 760 mm Hg]
Flash Point: -1.1 °C (30 °F) [Tag Closed Cup]
Evaporation rate: 3.5 (butyl acetate =1)
Flammability (solid, gas): n/a – liquid
Upper/lower flammability or explosive limits:
   Upper: 10%
   Lower: 2%
Vapor Pressure: Not determined
Vapor Density: 2.9
Specific Gravity: 0.95
Solubility: Insoluble in water
Partition coefficient (n-octanol/water): Not determined
auto-ignition temperature: Not determined
Decomposition temperature: Not determined
Viscosity: Not determined
Explosive properties: Not determined
Oxidizing Properties: Not determined
9.2 Other information

No further relevant information available.

Section 10: Stability and Reactivity

10.1 Reactivity
Not reactive under normal conditions.

10.2 Chemical Stability
Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions
None under normal processing.

10.4 Conditions to avoid
Keep away from heat, sparks and open flame.

10.5 Incompatible materials
Strong oxidizing agents.

10.6 Hazardous decomposition products
Thermal decomposition may produce oxides of carbon.

Section 11: Toxicological Information

Information on the likely routes of exposure

Inhalation: Avoid breathing vapors or mists.
Skin contact: Causes skin irritation
Eye contact: Causes serious eye irritation
Ingestion: Harmful if swallowed.

11.1 Information on toxicological effects

A. acute toxicity: Ingestion may cause nausea, vomiting, stomach ache, and diarrhea.

Component information:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50 (mg/kg)</th>
<th>Dermal LD50 (mg/kg)</th>
<th>Inhalation LC50 (mg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene (108-88-3)</td>
<td>636</td>
<td>8390</td>
<td>12.5</td>
</tr>
<tr>
<td></td>
<td>(Rat)</td>
<td>(Rabbit)</td>
<td>(Rat) 4h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12124</td>
<td>&gt;26700 ppm (Rat) 1h</td>
</tr>
<tr>
<td>Tetrahydrofuran (109-99-9)</td>
<td>1650</td>
<td></td>
<td>53.9</td>
</tr>
<tr>
<td></td>
<td>(Rat)</td>
<td></td>
<td>(Rat) 4h</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>180 mg/L (Rat) 1h</td>
</tr>
<tr>
<td>Methyl ethyl ketone (78-93-3)</td>
<td>2737</td>
<td>6480</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(mg/kg)</td>
<td>(mg/kg)</td>
<td></td>
</tr>
<tr>
<td>Propylene oxide (75-56-9)</td>
<td>520</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

B. skin corrosion/irritation: Kin contact can lead to drying, defatting, itching, stinging and irritation.

C. serious eye damage/irritation: Prolonged contact may cause painful stinging or burning of eyes and lids, watering of eye, and irritation.

D. respiratory or skin sensitization: Prolonged breathing of vapors may cause nausea, headache, weakness and/or dizziness.
**E. germ cell mutagenicity:** May cause genetic defects.

**F. carcinogenicity:** The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene (108-88-3)</td>
<td></td>
<td></td>
<td>Group 3</td>
<td></td>
</tr>
<tr>
<td>Tetrahydrofuran (109-99-9)</td>
<td>A3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propylene oxide (75-56-9)</td>
<td>A3</td>
<td>Group 2B</td>
<td>Reasonably</td>
<td>x</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Anticipated</td>
<td></td>
</tr>
</tbody>
</table>

ACGIH: A3=Animal carcinogen  
IARC: Group 2B = Possibly carcinogenic to humans  
Group 3 = Not classifiable as human carcinogens  
NTP: Reasonably Anticipated = Reasonably anticipated to be a Human Carcinogen  
OSHA: x = Present

**G. reproductive toxicity:** Suspected of damaging fertility or the unborn child.

**H. STOT-single exposure:**
- May cause respiratory irritation.
- May cause drowsiness of dizziness.

**I. STOT-repeated exposure:**
- May cause damage to organs through prolonged or repeated exposure.

**J. aspiration hazard:**
- May be fatal if swallowed and enters airways.

---

**Section 12: Ecological Information**

12.1 Ecotoxicity:
Harmful to aquatic life with long lasting effects.

**Component Information:**

**Toluene (108-88-3):**

- **Algae/aquatic plants:**
  - 433:96 h Pseudokirchneriella subcapitata mg/L EC50
  - 12.5: 72h Pseudokirchneriella subcapitata mg/L EC50 static

- **Fish:**
  - 15.22 – 19.05: 96 h Pimephales promelas mg/L LC50 flow through
  - 12.6: 96 h Pimephales promelas mg/L LC50 static
  - 5.89 – 7.81: 96h Oncorhynchus mykiss mg/L LC50 flow-through
  - 14.1 – 17.16: 96h Oncorhynchus mykiss mg/L LC50 static
  - 5.8: 96 h Oncorhynchus mykiss mg/L LC50 semi-static
  - 11.0 – 15.0: 96h Lepomis macrochirus mg/L LC50 static
  - 54: 96 h Oryzias latipes mg/L LC50 static
  - 28.2: 96 h Poecilia reticulate mg/L LC50 semi-static
  - 50.87 – 70.34: 96h Poecilia reticulate mg/L LC50 static

- **Toxicity to microorganisms**
  - EC50 = 19.7 mg/L 30 min

- **Crustacea**
  - 5.46 – 9.83: 48h Daphnia magna mg/L EC50 static
  - 11.5: 48h Daphnia magna mg/L EC50
Tetrahydrofuran (109-99-9)

Fish
1970 – 2360: 96h  Pimephales promelas mg/L LC50 flow-through
2700 – 3600: 96H  Pimephales promelas mg/L LC50 static

Crustacea
5930: 24h  Daphnia magna mg/L EC50

Methyl ethyl ketone (78-93-3)

Fish
3130 – 3320: 96h  Pimephales promelas mg/L LC50 flow-through

Toxicity to microorganisms
EC50 = 3403 mg/L 30 min
EC50 = 3426 mg/L 5 min

Crustacea
520: 48h  Daphnia magna mg/L EC50
5091: 48h  Daphnia magna mg/L EC50
4025 – 6440: 48h  Daphnia magna mg/L EC50 static

Propylene oxide (75-56-9)

Algae/aquatic plants
240: 96h  Psuedokirchneriella subcapitata mg/L EC50

Fish
215: 96h  Lepomis macrochirus mg/L LC50 static

Toxicity to microorganisms
EC50 = 3300 mg/L 160 min

Crustacea
350: 48h  Daphnia magna mg/L EC50

12.2 Persistence and degradability:
Not determined.

12.3 Bio-accumulative potential:
Not determined

12.4 Mobility in soil:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene (108-88-3)</td>
<td>2.65</td>
</tr>
<tr>
<td>Tetrahydrofuran (109-99-9)</td>
<td>0.45</td>
</tr>
<tr>
<td>Methyl ethyl ketone</td>
<td>0.29</td>
</tr>
<tr>
<td>Propylene oxide (75-56-9)</td>
<td>0.08</td>
</tr>
</tbody>
</table>

12.5 Results of PBT and vPvB assessment: Not determined.

12.6 Other adverse effects: Not determined.

Section 13: Disposal Considerations

13.1 Waste treatment methods

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging: Disposal should be in accordance with applicable regional, national, and local laws and regulations.

US EPA Waste Numbers:
Toluene (108-88-3): RCRA U Series Waste # U220
Basis for Listing: Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151
F Series Wastes, Waste number F025, Waste description:
Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.

Tetrahydrofuran (109-99-9): RCRA U Series Waste # U213

Methyl ethyl ketone (78-93-3): RCRA U Series Waste # U159
Basis for Listing: Included in waste streams: F005, F039
RCRA-D Series Wastes: 200.0 mg/L regulatory level

California Hazardous Waste Status:
Toluene (108-88-3): Toxic; Ignitable
Tetrahydrofuran (109-99-9): Toxic; Ignitable
Methyl ethyl ketone (78-93-3): Toxic; Ignitable
Propylene oxide (75-56-9): Toxic; Ignitable

Section 14: Transport Information

DOT and IATA:
14.1 UN number: UN1263
14.2 UN proper shipping name: Paint
14.3 Transport hazard class: 3
14.4 Packing Group: II

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal Regulations:

CERCLA

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene (108-88-3)</td>
<td>1000 lb</td>
<td>1000 lb final RQ, 454 kg final RQ</td>
</tr>
<tr>
<td>Tetrahydrofuran (109-99-9)</td>
<td>1000 lb</td>
<td>1000 lb final RQ, 454 kg final RQ</td>
</tr>
<tr>
<td>Methyl ethyl ketone (78-93-3)</td>
<td>5000 lb</td>
<td>5000 lb final RQ, 2270 kg final RQ</td>
</tr>
<tr>
<td>Propylene oxide (75-56-9)</td>
<td>100 lb</td>
<td>100 lb final RQ, 45.4 kg final RQ</td>
</tr>
</tbody>
</table>

SARA 313

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight Percent</th>
<th>SARA 313 Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>40-50</td>
<td>1.0</td>
</tr>
<tr>
<td>Propylene oxide</td>
<td>75-56-9</td>
<td>0.5-1.5</td>
<td>0.1</td>
</tr>
</tbody>
</table>
**CWA (Clean Water Act)**

<table>
<thead>
<tr>
<th>Component</th>
<th>CWA-Reportable Quantities</th>
<th>CWA-Toxic Pollutants</th>
<th>CWA-Priority Pollutants</th>
<th>CWA-Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene (108-88-3)</td>
<td>1000 lb</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Propylene oxide (75-56-9)</td>
<td>100 lb</td>
<td></td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**US STATE REGULATIONS**

**California Proposition 65**
This product contains the following Proposition 65 chemicals:
- Toluene (108-88-3): Developmental; Female Reproductive
- Propylene oxide (75-56-9): Carcinogen

**US State Right-to-Know Regulations:**
- Toluene (108-88-3) is on the New Jersey, Massachusetts, and Pennsylvania Lists
- Tetrahydrofuran (109-99-9) is on the New Jersey, Massachusetts, and Pennsylvania Lists.
- Methyl ethyl ketone (78-93-3) is on the New Jersey, Massachusetts, and Pennsylvania Lists.
- Propylene oxide (75-56-9) is on the New Jersey, Massachusetts, and Pennsylvania Lists.

**International Inventories:**

Product listed on:
- TSCA – United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL – Canadian Domestic Substances List/ Non-Domestic Substances List
- EINECS/ELINCS – European Inventory of Existing Chemical Substances/European List of Notified Chemicals Substances
- ENCS – Japan Existing and New Chemical Substances
- IECSC – China Inventory of Existing Chemical Substances
- KECL – Korean Existing and Evaluated Chemical Substances
- PICCS – Philippines Inventory of Chemicals and Chemical Substances

**Date of Preparation:** October 3, 2016

**Abbreviations and acronyms**

- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bio-accumulative and Toxicological
- vPvB: very Persistent and very Bio-accumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- STEL: Short Term Exposure Limit

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Section 16: Other Information

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