1 Identification

- **Product identifier**
- **Trade name:** Atlas Tech-Seal HMWM - PART A
- **Article number:** HMWM-A
- **Relevant identified uses of the substance or mixture and uses advised against:** No further relevant information available.
- **Application of the substance / the mixture**
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
    Atlas Construction Supply
    4640 Brinell Street
    San Diego, CA 92111
    
    **Emergency Telephone Number:** Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call (703) 527-3887. Collect calls are accepted.
- **Information department:** Environmental, Health, and Safety department.

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - Skin Irrit. 2  H315 Causes skin irritation.
  - Eye Irrit. 2A  H319 Causes serious eye irritation.
- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**
  - GHS07
- **Signal word** Warning
- **Hazard statements**
  - Causes skin irritation.
  - Causes serious eye irritation.
- **Precautionary statements**
  - Wear protective gloves.
  - Wear eye protection / face protection.
  - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - Specific treatment (see on this label).
  - If skin irritation occurs: Get medical advice/attention.
  - If eye irritation persists: Get medical advice/attention.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**
  - Health = 1
  - Fire = 1
  - Reactivity = 0

(Contd. on page 2)
3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components:</th>
</tr>
</thead>
<tbody>
<tr>
<td>27813-02-1 methacrylic acid, monoester with propane-1,2-diol</td>
</tr>
<tr>
<td>3290-92-4 propylidynetrimethyl trimethacrylate</td>
</tr>
</tbody>
</table>

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- **Description of first aid measures**
  - **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
  - **After skin contact:** If skin irritation continues, consult a doctor.
  - **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
  - **After swallowing:** Seek medical treatment.

- **Information for doctor:**
  - **Most important symptoms and effects, both acute and delayed** No further relevant information available.
  - **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents:** CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - **Special hazards arising from the substance or mixture** No further relevant information available.

- **Advice for firefighters**
  - **Protective equipment:** Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:** Do not allow product to reach sewage system or any water course.

- **Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

**7 Handling and storage**

- **Handling:**
  - **Precautions for safe handling**
    Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.
  - **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**
  - **Requirements to be met by storerooms and receptacles:** No special requirements.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:** Keep receptacle tightly sealed.
  - **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>3290-92-4 propylidynetrimethyl trimethacrylate</td>
<td>1 mg/m³</td>
</tr>
</tbody>
</table>

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**
  - **General protective and hygienic measures:**
    Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
  - **Breathing equipment:**
    In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
  - **Protection of hands:**
    Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>According to product specification</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH-value</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Change in condition</td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range</td>
<td>Undetermined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range</td>
<td>200 °C (392 °F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>95 °C (203 °F)</td>
</tr>
<tr>
<td>Flammability (solid, gaseous)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto igniting</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>Danger of explosion</td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>Explosion limits</td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Density at 20 °C (68 °F)</td>
<td>1.03048 g/cm³ (8.599 lbs/gal)</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water</td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Dynamic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solvent content</td>
<td></td>
</tr>
<tr>
<td>Organic solvents</td>
<td>0.0 %</td>
</tr>
<tr>
<td>Solids content</td>
<td>100.0 %</td>
</tr>
<tr>
<td>Other information</td>
<td>No further relevant information available.</td>
</tr>
<tr>
<td>Volatile Organic Compounds</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

(Contd. of page 5)
10 Stability and reactivity

- Reactivity
- Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  - Possibility of hazardous reactions No dangerous reactions known.
  - Conditions to avoid No further relevant information available.
  - Incompatible materials: No further relevant information available.
  - Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
  - Primary irritant effect:
    - on the skin: May cause skin irritation.
    - on the eye: Irritating effect.
  - Sensitization: No sensitizing effects known.
- Additional toxicological information:
  The product shows the following dangers according to internally approved calculation methods for preparations:
  Irritant
- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    None of the ingredients is listed.
  - NTP (National Toxicology Program)
    None of the ingredients is listed.
  - OSHA-Ca (Occupational Safety & Health Administration)
    None of the ingredients is listed.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
  - Bioaccumulative potential No further relevant information available.
  - Mobility in soil No further relevant information available.
- Additional ecological information:
  - General notes:
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Water hazard class 2 (Self-assessment): hazardous for water
    Do not allow product to reach ground water, water course or sewage system.
    Danger to drinking water if even small quantities leak into the ground.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - Other adverse effects No further relevant information available.
13 Disposal considerations

- Waste treatment methods
  - **Recommendation:** It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.
- Uncleaned packagings:
  - **Recommendation:** Disposal must be made according to Federal, State, and Local regulations.

14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Not Regulated
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Not Regulated
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
  - **Class** Not Regulated
- **Packing group**
- **DOT, ADR, IMDG, IATA** Not Regulated
- **Environmental hazards:**
- **Marine pollutant:** No
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

Transport/Additional information:

- **ADR**
- **U.S. Domestic Ground Shipments:** Same as listed for Standard Shipments above.
- **U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:** Same as listed for Standard Shipments above.
- **Emergency Response Guide (ERG) Number:** Not determine
- **UN "Model Regulation":** -

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

  - **Section 355 (extremely hazardous substances):** None of the ingredient is listed.

  - **Section 313 (Specific toxic chemical listings):** This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

  None of the ingredients is listed.
Trade name: Atlas Tech-Seal HMWM - PART A

- **TSCA (Toxic Substances Control Act):**
  All ingredients are listed.

- **Proposition 65**
  - **Chemicals known to the State of California (Prop. 65) to cause cancer:**
    None of the ingredients is listed.
  - **Chemicals known to cause reproductive toxicity for females:**
    None of the ingredients is listed.
  - **Chemicals known to cause reproductive toxicity for males:**
    None of the ingredients is listed.
  - **Chemicals known to cause developmental toxicity:**
    None of the ingredients is listed.

- **Cancerogenity categories**
  - **EPA (Environmental Protection Agency)**
    None of the ingredients is listed.
  - **TLV (Threshold Limit Value established by ACGIH)**
    None of the ingredients is listed.
  - **MAK (German Maximum Workplace Concentration)**
    None of the ingredients is listed.
  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    None of the ingredients is listed.

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**
    - GHS07

- **Signal word** Warning
- **Hazard statements**
  Causes skin irritation.
  Causes serious eye irritation.
- **Precautionary statements**
  Wear protective gloves.
  Wear eye protection/face protection.
  If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  Specific treatment (see on this label).
  If skin irritation occurs: Get medical advice/attention.
  If eye irritation persists: Get medical advice/attention.

- **National regulations:**
  - **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
  - **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Environmental, Health & Safety Department
- **Contact:** Environmental, Health & Safety Manager
- **Date of preparation / last revision:** 06/25/2015 / 5
- **Abbreviations and acronyms:**
  - **ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - **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)
  - **Skin Irrit. 2:** Skin corrosion/irritation, Hazard Category 2
  - **Eye Irrit. 2A:** Serious eye damage/eye irritation, Hazard Category 2A
1 Identification

- Product identifier
- Trade name: Atlas Tech-Seal HMWM - PART B
- Article number: HMWM-B
- Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.
- Application of the substance / the mixture
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  Atlas Construction Supply
  4640 Brinell Street
  San Diego, CA 92111
  Tel: (858) 277-2100

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call (703) 527-3887. Collect calls are accepted.

- Information department: Environmental, Health, and Safety department.

2 Hazard(s) identification

- Classification of the substance or mixture
  Flam. Liq. 3 H226 Flammable liquid and vapor.
  Acute Tox. 3 H301 Toxic if swallowed.
  Muta. 1B H340 May cause genetic defects.
  Carc. 1B H350 May cause cancer.
  STOT RE 1 H372 Causes damage to the central nervous system through prolonged or repeated exposure.
  Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- Label elements
  - GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms

- Signal word: Danger

- Hazard-determining components of labeling:
  - cobalt bis(2-ethylhexanoate)
  - Stoddard solvent
- Hazard statements
  - Flammable liquid and vapor.
  - Toxic if swallowed.
  - May cause genetic defects.
  - May cause cancer.
  - Causes damage to the central nervous system through prolonged or repeated exposure.
  - May be fatal if swallowed and enters airways.
- Precautionary statements
  - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - Use explosion-proof electrical/ventilating/lighting/equipment.
  - If swallowed: Immediately call a poison center/doctor.

(Contd. on page 2)
**Trade name:** Atlas Tech-Seal HMWM - PART B

(Contd. of page 1)

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
    - Health = 2
    - Fire = 2
    - Reactivity = 0
  - **HMIS-ratings (scale 0 - 4)**
    - HEALTH
      - Health = *2
    - FIRE
      - Fire = 2
    - PHYSICAL HAZARD
      - Reactivity = 0

- **Other hazards**
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**
  - 8052-41-3 Stoddard solvent 50-75%
  - 136-52-7 cobalt bis(2-ethylhexanoate) 25-50%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First-aid measures

- **Description of first aid measures**

  **General information:**
  Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

  **After inhalation:** Supply fresh air; consult doctor in case of complaints.

  **After skin contact:**
  Immediately rinse with water.
  If skin irritation continues, consult a doctor.

  **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

  **After swallowing:**
  Immediately call a doctor.
  Seek medical treatment.

- **Information for doctor:**
  - Most important symptoms and effects, both acute and delayed: No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

(Contd. on page 3)
5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
  - Protective equipment: Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  - Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.
- Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose contaminated material as waste according to item 13.
  - Ensure adequate ventilation.
  - Do not flush with water or aqueous cleansing agents
- Reference to other sections
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

7 Handling and storage

- Handling:
  - Precautions for safe handling
    - Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.
  - Information about protection against explosions and fires:
    - Keep ignition sources away - Do not smoke.
    - Protect against electrostatic charges.
    - Keep respiratory protective device available.
- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
Trade name: Atlas Tech-Seal HMWM - PART B

Control parameters

Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Substance</th>
<th>PEL Long-term value</th>
<th>REL Long-term value</th>
<th>Ceiling limit value</th>
</tr>
</thead>
<tbody>
<tr>
<td>8052-41-3 Stoddard solvent</td>
<td>2900 mg/m³, 500 ppm</td>
<td>2900 mg/m³</td>
<td>1800* mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>*15-min</td>
</tr>
<tr>
<td>136-52-7 cobalt bis(2-ethylhexanoate)</td>
<td>525 mg/m³, 100 ppm</td>
<td>525 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.

Breathing equipment:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection: Wear appropriate eye protection to prevent eye contact.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

| Form: | Liquid |
| Color: | According to product specification |
| Odor: | Characteristic |

| Odour threshold: | Not determined. |

| pH-value: | Not determined. |

Change in condition

| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | > 149 °C (> 300 °F) |

| Flash point: | 41 °C (106 °F) |

| Flammability (solid, gaseous): | Not applicable. |
### Trade name: Atlas Tech-Seal HMWM - PART B

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ignition temperature</strong></td>
<td>230 °C (446 °F)</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Auto igniting</strong></td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td><strong>Danger of explosion</strong></td>
<td>Product is not explosive.</td>
</tr>
<tr>
<td><strong>Explosion limits</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Lower</strong></td>
<td>1.1 Vol %</td>
</tr>
<tr>
<td><strong>Upper</strong></td>
<td>6.0 Vol %</td>
</tr>
<tr>
<td><strong>Explosion limits</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Density at 20 °C (68 °F):</strong></td>
<td>1.02 g/cm³ (8.512 lbs/gal)</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with Water</strong></td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water):</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dynamic</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Kinematic</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Solvent content</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Organic solvents:</strong></td>
<td>0.0 %</td>
</tr>
<tr>
<td><strong>Solids content</strong></td>
<td>40.0 %</td>
</tr>
<tr>
<td><strong>Other information</strong></td>
<td>No further relevant information available.</td>
</tr>
<tr>
<td><strong>Volatile Organic Compounds:</strong></td>
<td>Not determined</td>
</tr>
</tbody>
</table>

#### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

#### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
  - **on the skin:** No irritant effect known.
  - **on the eye:** No irritating effect known.
- **Sensitization:** No sensitizing effects known.
Safety Data Sheet  
acc. to OSHA HCS

Trade name: Atlas Tech-Seal HMWM - PART B

- **Additional toxicological information:**
  The product shows the following dangers according to internally approved calculation methods for preparations:
  - Harmful
  - Carcinogenic.
  - The product can cause inheritable damage.

- **Carcinogenic categories**
  - **IARC (International Agency for Research on Cancer)**
    - 136-52-7 cobalt bis(2-ethylhexanoate)  
      - 2B
  - **NTP (National Toxicology Program)**
    - None of the ingredients is listed.
  - **OSHA-Ca (Occupational Safety & Health Administration)**
    - None of the ingredients is listed.

12 **Ecological information**

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **Persistence and degradability** No further relevant information available.
  - **Behavior in environmental systems:**
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.
  - **Additional ecological information:**
    - **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water
  - **Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.
    - **vPvB:** Not applicable.
    - **Other adverse effects** No further relevant information available.

13 **Disposal considerations**

- **Waste treatment methods**
  - **Recommendation:**
    It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to Federal, State, and Local regulations.

14 **Transport information**

- **UN-Number**
  - DOT, ADR, IMDG, IATA
  - UN1992

- **UN proper shipping name**
  - DOT  
    - Flammable liquids, toxic, n.o.s. (Turpentine substitute, cobalt bis(2-ethylhexanoate))
**Trade name: Atlas Tech-Seal HMWM - PART B**

- **ADR**
  - 1992 Flammable liquids, toxic, n.o.s. (Turpentine substitute, cobalt bis(2-ethylhexanoate))

- **IMDG, IATA**
  - FLAMMABLE LIQUID, TOXIC, N.O.S. (TURPENTINE SUBSTITUTE, cobalt bis(2-ethylhexanoate))

<table>
<thead>
<tr>
<th><strong>Transport hazard class(es)</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DOT</strong></td>
<td></td>
</tr>
<tr>
<td>- Class</td>
<td>3 Flammable liquids</td>
</tr>
<tr>
<td>- Label</td>
<td>3, 6.1</td>
</tr>
</tbody>
</table>

| **ADR**                        |  |
| - Class                        | 3 Flammable liquids                      |
| - Label                        | 3+6.1                                    |

| **IMDG**                       |  |
| - Class                        | 3 Flammable liquids                      |
| - Label                        | 3/6.1                                    |

| **IATA**                       |  |
| - Class                        | 3 Flammable liquids                      |
| - Label                        | 3 (6.1)                                  |

| **Packing group**              |  |
| **DOT, ADR, IMDG, IATA**       | III                                      |

| **Environmental hazards:**     |  |
| **Marine pollutant:**          | No                                       |

| **Special precautions for user** | Warning: Flammable liquids |
| **Danger code (Kemler):**       | 36                                      |
| **EMS Number:**                 | F-E,S-D                                  |

| **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** | Not applicable. |
Trade name: Atlas Tech-Seal HMWM - PART B

- Transport/Additional information:
  - ADR
  - Excepted quantities (EQ)
    Code: E1
    Maximum net quantity per inner packaging: 30 ml
    Maximum net quantity per outer packaging: 1000 ml
  - U.S. Domestic Ground Shipments:
  - U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:
    DOT: Not regulated (Reclassified as per 49CFR 173.150).
  - Emergency Response Guide (ERG) Number:
    Not determine
  - IMDG
    - Limited quantities (LQ)
    - Excepted quantities (EQ)
      Code: E1
      Maximum net quantity per inner packaging: 30 ml
      Maximum net quantity per outer packaging: 1000 ml
  - UN "Model Regulation":
    UN1992, Flammable liquids, toxic, n.o.s. (Turpentine substitute, cobalt bis(2-ethylhexanoate)), 3 (6.1), III

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara
    - Section 355 (extremely hazardous substances):
      None of the ingredient is listed.
    - Section 313 (Specific toxic chemical listings):
      This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.
      136-52-7 cobalt bis(2-ethylhexanoate) 25-50%
  - TSCA (Toxic Substances Control Act):
    All ingredients are listed.
  - Proposition 65
    - Chemicals known to the State of California (Prop. 65) to cause cancer:
      None of the ingredients is listed.
    - Chemicals known to cause reproductive toxicity for females:
      None of the ingredients is listed.
    - Chemicals known to cause reproductive toxicity for males:
      None of the ingredients is listed.
    - Chemicals known to cause developmental toxicity:
      None of the ingredients is listed.
  - Cancerogenity categories
    - EPA (Environmental Protection Agency)
      None of the ingredients is listed.
    - TLV (Threshold Limit Value established by ACGIH)
      None of the ingredients is listed.
Trade name: Atlas Tech-Seal HMWM - PART B

- **MAK** (German Maximum Workplace Concentration)
  
  None of the ingredients is listed.

- **NIOSH-Ca** (National Institute for Occupational Safety and Health)
  
  None of the ingredients is listed.

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**
  
  GHS02  GHS06  GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  
  cobalt bis(2-ethylhexanoate)
  
  Stoddard solvent

- **Hazard statements**
  
  Flammable liquid and vapor.
  
  Toxic if swallowed.
  
  May cause genetic defects.
  
  May cause cancer.
  
  Causes damage to the central nervous system through prolonged or repeated exposure.
  
  May be fatal if swallowed and enters airways.

- **Precautionary statements**
  
  Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  
  Use explosion-proof electrical/ventilating/lighting/equipment.
  
  If swallowed: Immediately call a poison center/doctor.
  
  IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  
  Store locked up.
  
  Dispose of contents/container in accordance with local/regional/national/international regulations.

- **National regulations:**

- **Information about limitation of use:**
  
  Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- **Water hazard class:** Water hazard class 3 (Self-assessment): extremely hazardous for water.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Environmental, Health & Safety Department

- **Contact:** Environmental, Health & Safety Manager

- **Date of preparation / last revision** 06/25/2015 / 5

- **Abbreviations and acronyms:**
  
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  
  IMDG: International Maritime Code for Dangerous Goods
  
  DOT: US Department of Transportation
  
  IATA: International Air Transport Association
  
  ACGIH: American Conference of Governmental Industrial Hygienists
Trade name: Atlas Tech-Seal HMWM - PART B

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)
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 3: Acute toxicity, Hazard Category 3
Muta. 1B: Germ cell mutagenicity, Hazard Category 1B
Carc. 1B: Carcinogenicity, Hazard Category 1B
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
1 Identification

- **Product identifier**
  - **Trade name:** Atlas Tech-Seal HMWM - PART C
  - **Article number:** HMWM-C
- **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **Application of the substance / the mixture**
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
    Atlas Construction Supply
    4640 Brinell Street
    San Diego, CA 92111
  - **Emergency Telephone Number:** Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call (703) 527-3887. Collect calls are accepted.
  - **Information department:** Environmental, Health, and Safety department.

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - Org. Perox. EF H242 Heating may cause a fire.
  - STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
  - Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
  - Skin Corr. 1B H314 Causes severe skin burns and eye damage.
  - Acute Tox. 4 H302 Harmful if swallowed.
  - Acute Tox. 4 H312 Harmful in contact with skin.
  - H227 Combustible liquid.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- **Information concerning particular hazards for human and environment:**
  The product has to be labelled due to internationally acknowledged calculation procedures using the latest valid versions.
- **Classification system:**
  The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**
  The product has been classified and marked in accordance with directives on hazardous materials.
- **Code letter and hazard designation of product:**
  - **T** Toxic
  - **O** Oxidizing
  - **N** Dangerous for the environment
- **Hazard-determining components of labeling:**
  - α,α'-dimethylbenzyl hydroperoxide
  - cumene
- **Risk phrases:**
  - **7** May cause fire.
  - **21/22** Harmful in contact with skin and if swallowed.
  - **23** Toxic by inhalation.
  - **34** Causes burns.
  - **37** Irritating to respiratory system.
  - **48/20/22** Harmful: danger of serious damage to health by prolonged

(Contd. on page 2)
exposure through inhalation and if swallowed.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.

- Safety phrases:
  1/2 Keep locked up and out of the reach of children.
  3/9/14 Keep in a cool, well-ventilated place away from … (incompatible materials to be indicated by the manufacturer).
  7 Keep container tightly closed.
  13 Keep away from food, drink and animal feedingstuffs.
  20 When using do not eat or drink.
  23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
  25 Avoid contact with eyes.
  26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  27 Take off immediately all contaminated clothing.
  29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
  36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
  45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
  50 Do not mix with … (to be specified by the manufacturer).
  63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

- Classification system:
  NFPA ratings (scale 0 - 4)
  Health = 3
  Fire = 3
  Reactivity = 0

The substance possesses oxidizing properties.

- HMIS-ratings (scale 0 - 4)
  HEALTH Health = *3
  FIRE Fire = 3
  PHYSICAL HAZARD Reactivity = 0

- Other hazards
- Results of PBT and vPvB assessment
  PBT: Not applicable.
  vPvB: Not applicable.

---

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>80-15-9</td>
<td>a,a -dimethylbenzyl hydroperoxide</td>
</tr>
<tr>
<td>98-82-8</td>
<td>cumene</td>
</tr>
</tbody>
</table>
4 First-aid measures

- Description of first aid measures
  General information:
  Immediately remove any clothing soiled by the product.
  Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  Remove breathing apparatus only after contaminated clothing have been completely removed.
  In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:
  Supply fresh air or oxygen; call for doctor.
  In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:
  Immediately wash with water and soap and rinse thoroughly.
  If skin irritation continues, consult a doctor.
- After eye contact:
  Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
  Immediately call a doctor.
  Drink copious amounts of water and provide fresh air. Immediately call a doctor.
  Seek medical treatment.
- Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
  Suitable extinguishing agents:
  CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
  Protective equipment:
  Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.
  Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.
- Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Use neutralizing agent.
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
- Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
7 Handling and storage

- **Precautions for safe handling**
  Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.

- **Information about protection against explosions and fires:** Keep respiratory protective device available.

- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:** No special requirements.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:** Keep receptacle tightly sealed.
    - **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**
    - **80-15-9 γ,α-dimethylbenzyl hydroperoxide**
      - WEEL Long-term value: 6 mg/m³, 1 ppm
      - Skin
    - **98-82-8 cumene**
      - PEL Long-term value: 245 mg/m³, 50 ppm
      - Skin
      - REL Long-term value: 245 mg/m³, 50 ppm
      - Skin
      - TLV Long-term value: 246 mg/m³, 50 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**
  - **Personal protective equipment:**
    - **General protective and hygienic measures:**
      Keep away from foodstuffs, beverages and feed.
      Immediately remove all soiled and contaminated clothing.
      Wash hands before breaks and at the end of work.
      Store protective clothing separately.
      Avoid contact with the eyes and skin.
    - **Breathing equipment:** Suitable respiratory protective device recommended.
    - **Protection of hands:**
      - **Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>According to product specification</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Characteristic</td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>pH-value</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range</td>
<td>Undetermined</td>
</tr>
<tr>
<td>Boiling point/Boiling range</td>
<td>53 °C (127 °F)</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>79 °C (174 °F)</td>
</tr>
<tr>
<td><strong>Flammability (solid, gaseous)</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Ignition temperature</strong></td>
<td>420 °C (788 °F)</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Auto igniting</strong></td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td><strong>Danger of explosion</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Explosion limits</strong></td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>0.8 Vol %</td>
</tr>
<tr>
<td>Upper</td>
<td>6.0 Vol %</td>
</tr>
<tr>
<td><strong>Vapor pressure at 20 °C (68 °F)</strong></td>
<td>5 hPa (4 mm Hg)</td>
</tr>
<tr>
<td><strong>Density at 20 °C (68 °F)</strong></td>
<td>1.0619 g/cm³ (8.862 lbs/gal)</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with Water</strong></td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water)</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td></td>
</tr>
<tr>
<td>Dynamic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Solvent content</strong></td>
<td></td>
</tr>
<tr>
<td>Organic solvents</td>
<td>15.0 %</td>
</tr>
<tr>
<td><strong>Solids content</strong></td>
<td>5.0 %</td>
</tr>
<tr>
<td><strong>Other information</strong></td>
<td>No further relevant information available.</td>
</tr>
<tr>
<td><strong>Volatile Organic Compounds</strong></td>
<td>Not determined</td>
</tr>
</tbody>
</table>
10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

<table>
<thead>
<tr>
<th></th>
<th>LD50/DL50 values that are relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>80-15-9 α,α -dimethylbenzyl hydroperoxide</strong></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50 382 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50 500 mg/kg (rat)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50/4 h 220 mg/l (rat)</td>
</tr>
<tr>
<td></td>
<td><strong>98-82-8 cumene</strong></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50 1400 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50 12300 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50/4 h 24.7 mg/l (mouse)</td>
</tr>
</tbody>
</table>

- Primary irritant effect:
  - on the skin: Caustic effect on skin and mucous membranes.
  - on the eye: Strong caustic effect.
  - Sensitization: No sensitizing effects known.
- Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:
  Toxic
  Harmful
  Corrosive
  Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    None of the ingredients is listed.
  - NTP (National Toxicology Program)
    None of the ingredients is listed.
  - OSHA-Ca (Occupational Safety & Health Administration)
    None of the ingredients is listed.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
39.0

· Persistence and degradability: No further relevant information available.
· Bioaccumulative potential: No further relevant information available.
· Mobility in soil: No further relevant information available.
· Ecotoxicological effects:
  · Remark: Toxic for fish
· Additional ecological information:
  · General notes:
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Water hazard class 2 (Self-assessment): hazardous for water
    Do not allow product to reach ground water, water course or sewage system.
    Must not reach bodies of water or drainage ditch undiluted or unneutralized.
    Danger to drinking water if even small quantities leak into the ground.
    Also poisonous for fish and plankton in water bodies.
    Toxic for aquatic organisms
· Results of PBT and vPvB assessment
  · PBT: Not applicable.
  · vPvB: Not applicable.
· Other adverse effects: No further relevant information available.

### 13 Disposal considerations

- Waste treatment methods
  · Recommendation:
    It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.
- Uncleaned packagings:
  · Recommendation: Disposal must be made according to Federal, State, and Local regulations.

### 14 Transport information

- UN-Number
- DOT, ADR, IMDG, IATA

- DOT proper shipping name
  - DOT: RQ Organic peroxide type F, liquid (α,α -dimethylbenzyl hydroperoxide)
  - ADR: 3109 Organic peroxide type F, liquid (α,α -dimethylbenzyl hydroperoxide), ENVIRONMENTALLY HAZARDOUS
  - IMDG: ORGANIC PEROXIDE TYPE F, LIQUID (α,α -dimethylbenzyl hydroperoxide), MARINE POLLUTANT
  - IATA: ORGANIC PEROXIDE TYPE F, LIQUID (α,α -dimethylbenzyl hydroperoxide)
- Transport hazard class(es)
  - DOT
    - Class: 5.2 Organic peroxides
39.0 · Label
8 · ADR
· Class 5.2 Organic peroxides
· Label 8
· Packing group
· DOT, ADR II
· Environmental hazards:
· Marine pollutant: Yes
· Special precautions for user Warning: Organic peroxides
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
· Transport/Additional information:
· DOT
· Remarks: Add "Marine Pollutant" to end of proper shipping name if shipping in a bulk container (>119 gallons).
· ADR
· U.S. Domestic Ground Shipments: Same as listed for Standard Shipments above.
· U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments: Same as listed for Standard Shipments above.
· Emergency Response Guide (ERG) Number: Not determine
· UN "Model Regulation": UN3109, Organic peroxide type F, liquid (α,α'-dimethylbenzyl hydroperoxide), ENVIRONMENTALLY HAZARDOUS, 8, II

15 Regulatory information
· Safety, health and environmental regulations/legislation specific for the substance or mixture
· Sara
· Section 355 (extremely hazardous substances):
None of the ingredient is listed.
· Section 313 (Specific toxic chemical listings):
This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-15-9</td>
<td>α,α'-dimethylbenzyl hydroperoxide</td>
<td>75-100%</td>
</tr>
<tr>
<td>98-82-8</td>
<td>cumene</td>
<td>10-25%</td>
</tr>
</tbody>
</table>
· TSCA (Toxic Substances Control Act):
None of the ingredients is listed.
· Proposition 65
· Chemicals known to the State of California (Prop. 65) to cause cancer:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>98-82-8</td>
<td>cumene</td>
</tr>
</tbody>
</table>
(Contd. on page 9)
39.0

· Chemicals known to cause reproductive toxicity for females:
  None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:
  None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:
  None of the ingredients is listed.

· Cancerogenity categories
  
  · EPA (Environmental Protection Agency)
    98-82-8 cumene  
    D, CBD

  · TLV (Threshold Limit Value established by ACGIH)
    None of the ingredients is listed.

  · MAK (German Maximum Workplace Concentration)
    None of the ingredients is listed.

  · NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients is listed.

· National regulations:
  
  · Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
  
  · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing MSDS: Environmental, Health & Safety Department
· Contact: Environmental, Health & Safety Manager
· Date of preparation / last revision 09/08/2014 / 2

· Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  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
  Flammable liquids, Hazard Category 4
  Org. Perox. EF: Organic Peroxides, Types E, F
  Acute Tox. 4: Acute toxicity, Hazard Category 4
  Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
  STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
  Asp. Tox. 1: Aspiration hazard, Hazard Category 1
LD50: Lethal dose, 50 percent
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1