**SAFETY DATA SHEET**

Dicobalt hexacarbonyl tert-butylacetylene

### Section 1. Identification

<table>
<thead>
<tr>
<th>Product identifier used on the label</th>
<th>Dicobalt hexacarbonyl tert-butylacetylene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>(3,3-Dimethyl-1-butyne)dicobalt hexacarbonyl; Cobalt,hexacarbonyl(3,3-dimethyl-1-butyne)di- (7CI)</td>
</tr>
<tr>
<td>Code</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**Recommended use and restrictions**

**Identified uses**

Not available.

**Supplier's details**

EREZTECH  
11555 Medlock Bridge Road,  
Suite 100, Duluth, GA 30097  
Tel: 678.561.2221  
Toll Free: 888.658.1221  
Fax: 678.619.2020  
Email: info@ereztech.com  
Website: http://ereztech.com

**Emergency telephone number (with hours of operation)**

678.561.2221  
888.658.1221

### Section 2. Hazards identification

**Classification of the substance or mixture**

- ACUTE TOXICITY: ORAL - Category 4  
- ACUTE TOXICITY: INHALATION - Category 4  
- SKIN CORROSION/IRRITATION - Category 3  
- SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B  
- SKIN SENSITIZATION - Category 1  
- CARCINOGENICITY - Category 2

**GHS label elements**

**Hazard pictograms**

![Hazard pictograms](image)

**Signal word**

Warning

**Hazard statements**

- Harmful if swallowed or if inhaled.  
- Causes mild skin irritation.  
- Causes eye irritation.  
- May cause an allergic skin reaction.  
- Suspected of causing cancer.

**Precautionary statements**

**General**

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Dicobalt hexacarbonyl tert-butylacetylene

Section 2. Hazards identification

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response: IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage: Store locked up.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification: None known.

Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3,3-Dimethyl-1-butynedicobalt hexacarbonyl; Cobalt,hexacarbonyl(3,3-dimethyl-1-butyne)di- (7CI)</td>
<td></td>
</tr>
</tbody>
</table>

CAS number/other identifiers

| CAS number | 56792-69-9 |
| EC number | Not available. |
| Product code | Not available. |

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dicobalt hexacarbonyl tert-butylacetylene</td>
<td>60 - 100</td>
<td>56792-69-9</td>
</tr>
</tbody>
</table>

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

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 20 minutes. Get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or
Section 4. First aid measures

Skin contact:
Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion:
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact:
Causes eye irritation.

Inhalation:
Harmful if inhaled.

Skin contact:
Causes mild skin irritation. May cause an allergic skin reaction.

Ingestion:
Harmful if swallowed. Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact:
Adverse symptoms may include the following:
- pain or irritation
- watering
- redness

Inhalation:
No known significant effects or critical hazards.

Skin contact:
Adverse symptoms may include the following:
- irritation
- redness

Ingestion:
No known significant effects or critical hazards.

Indication of immediate medical attention 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 suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)
## Section 5. Fire-fighting measures

<table>
<thead>
<tr>
<th><strong>Extinguishing media</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Suitable extinguishing media</strong></td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
<tr>
<td><strong>Unsuitable extinguishing media</strong></td>
<td>None known.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Specific hazards arising from the chemical</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hazardous thermal decomposition products</strong></td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, organic fumes, Cobalt oxides.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Special protective actions for fire-fighters</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Special protective equipment for fire-fighters</strong></td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
</tbody>
</table>

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<table>
<thead>
<tr>
<th><strong>For non-emergency personnel</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Evacuate surrounding areas.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Keep unnecessary and unprotected personnel from entering.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Avoid breathing vapor or mist.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Provide adequate ventilation.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Wear appropriate respirator when ventilation is inadequate.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Put on appropriate personal protective equipment.</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>For emergency responders</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>See also the information in “For non-emergency personnel”.</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Environmental precautions</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Methods and materials for containment and cleaning up

<table>
<thead>
<tr>
<th><strong>Small spill</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stop leak if without risk.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Move containers from spill area.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dilute with water and mop up if water-soluble.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dispose via a licensed waste disposal contractor.</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Large spill</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stop leak if without risk.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Move containers from spill area.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Approach release from upwind.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Prevent entry into sewers, water courses, basements or confined areas.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Wash spillages into an effluent treatment plant or proceed as follows.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13).</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dispose via a licensed waste disposal contractor.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Contaminated absorbent material may pose the same hazard as the spilled product.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Note: see Section 1 for emergency contact information and Section 13 for waste disposal.</strong></td>
<td></td>
</tr>
</tbody>
</table>
Section 7. Handling and storage

**Precautions for safe handling**

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, including any incompatibilities**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

**Control parameters**

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dicobalt hexacarbonyl tert-butylacetylene</td>
<td>ACGIH TLV (United States). TWA: 0.02 mg/m³ Form: as Co</td>
</tr>
</tbody>
</table>

**Recommended monitoring procedures**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Appropriate engineering controls**

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

**Hygiene measures**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection**
Section 8. Exposure controls/personal protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be 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 on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance
  Physical state: Liquid.
  Color: Red. [Dark]
  Odor: Not available.
  Odor threshold: Not available.
  pH: Not available.
  Melting point/freezing point: Not available.
  Boiling point/boiling range: Not available.
  Flash point: Not available.
  Evaporation rate: Not available.
  Flammability (solid, gas): Not available.
  Lower and upper explosive (flammable) limits: Not available.
  Vapor pressure: Not available.
  Vapor density: Not available.
  Relative density: Not available.
  Solubility: Insoluble in water.
  Partition coefficient: n-octanol/water: Not available.
  Auto-ignition temperature: Not available.
  Decomposition temperature: Not available.
  SADT: Not available.
  Viscosity: Not available.
Section 10. Stability and reactivity

Reactivity : Air sensitive.

Chemical stability : The product may not be stable under certain conditions of storage or use. See "Possibility of Hazardous Reactions" for further information.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : Slightly reactive or incompatible with the following materials: oxidizing materials, Halogens.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity
There is no data available.

Irritation/Corrosion
Skin : There is no data available.
Eyes : There is no data available.
Respiratory : There is no data available.

Sensitization
Skin : There is no data available.
Respiratory : There is no data available.

Mutagenicity
There is no data available.

Carcinogenicity
There is no data available.

Reproductive toxicity
There is no data available.

Teratogenicity
There is no data available.

Specific target organ toxicity (single exposure)
There is no data available.

Specific target organ toxicity (repeated exposure)
There is no data available.

Aspiration hazard
There is no data available.

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects
### Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>Causes mild skin irritation. May cause an allergic skin reaction.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Harmful if swallowed. Irritating to mouth, throat and stomach.</td>
</tr>
</tbody>
</table>

**Symptoms related to the physical, chemical and toxicological characteristics**

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>Adverse symptoms may include the following: pain or irritation, watering, redness</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>Adverse symptoms may include the following: irritation, redness</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure**

- **Potential immediate effects**: No known significant effects or critical hazards.
- **Potential delayed effects**: No known significant effects or critical hazards.

**Long term exposure**

- **Potential immediate effects**: No known significant effects or critical hazards.
- **Potential delayed effects**: No known significant effects or critical hazards.

**Potential chronic health effects**

- **General**: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- **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**

There is no data available.

### Section 12. Ecological information

**Toxicity**

There is no data available.

**Persistence and degradability**

There is no data available.

**Bioaccumulative potential**

There is no data available.
Section 12. Ecological information

There is no data available.

Mobility in soil

Soil/water partition coefficient ($K_{oc}$)

: There is no data available.

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 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 disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

<table>
<thead>
<tr>
<th></th>
<th>DOT</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>UN2810</td>
<td>UN2810</td>
<td>UN2810</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>TOXIC LIQUID, ORGANIC, N.O.S. (Dicobalt hexacarbonyl tert-butylacetylene )</td>
<td>TOXIC LIQUID, ORGANIC, N.O.S. (Dicobalt hexacarbonyl tert-butylacetylene )</td>
<td>TOXIC LIQUID, ORGANIC, N.O.S. (Dicobalt hexacarbonyl tert-butylacetylene )</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>6.1</td>
<td>6.1</td>
<td>6.1</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
<td>III</td>
<td>III</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td><strong>Transport within user’s premises:</strong> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.</td>
<td><strong>Transport within user’s premises:</strong> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.</td>
<td><strong>Transport within user’s premises:</strong> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.</td>
</tr>
<tr>
<td>Additional information</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
### Section 14. Transport information

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

### Section 15. Regulatory information

<table>
<thead>
<tr>
<th>Safety, health and environmental regulations specific for the product</th>
<th>No known specific national and/or regional regulations applicable to this product (including its ingredients).</th>
</tr>
</thead>
</table>
| U.S. Federal regulations | TSCA 8(a) IUR Exempt/Partial exemption: Not determined  
United States inventory (TSCA 8b): Not determined.  
SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notification: No products were found.  
SARA 302/304/311/312 hazardous chemicals: No products were found.  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found. |
| Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) | Not listed |
| Clean Air Act Section 602 Class I Substances | Not listed |
| Clean Air Act Section 602 Class II Substances | Not listed |
| DEA List I Chemicals (Precursor Chemicals) | Not listed |
| DEA List II Chemicals (Essential Chemicals) | Not listed |
| State regulations |  |
| Massachusetts | This material is not listed. |
| New York | This material is not listed. |
| New Jersey | This material is not listed. |
| Pennsylvania | This material is not listed. |
| California Prop. 65 | No products were found. |

### Section 16. Other information

**History**

**Date of issue mm/dd/yyyy** : 10/15/2012  
**Version** : 1  
**Prepared by** : KMK Regulatory Services Inc.
Section 16. Other information

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4, H302</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>Acute Tox. 4, H332</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Skin Irrit. 3, H316</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>Eye Irrit. 2B, H320</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>Skin Sens. 1, H317</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>Carc. 2, H351</td>
<td>Expert judgment</td>
</tr>
</tbody>
</table>

Key to abbreviations:
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- UN = United Nations

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