Section 1. Chemical product and company identifications

**Product code:** D-1765  
**Chemical formula:** C_{15}H_{32}D_{21}O  
**CAS:** 64502-99-4  
**CAS (unlabelled):** 128-37-0  
**Synonyms:** 2,6-Di-tert-butyl-p-cresol, Butylated Hydroxytoluene, BHT

**Supplier / Manufacturer:**  
C/D/N Isotopes Inc.  
88 Leacock Street  
Pointe-Claire (Québec) H9R 1H1  
Phone: 514-697-6254  
Toll-Free (Canada & USA): 1-800-565-4696  
Fax: 514-697-6148  
Website: www.cdnisotopes.com

In case of emergency:  
TOXYSCAN HOTLINE: 1-855-780-0599

Section 2. Hazards identifications

**Physical state:** Solid  
**Warning:** Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.  
**Routes of entry:** Inhalation, ingestion, skin and eyes

GHS (Globally Harmonized System of Classification and Labelling of Chemicals):

**GHS Classification:**  
- Acute toxicity, Oral (Category 4)  
- Skin irritation (Category 2)  
- Eye irritation (Category 2A)  
- Specific target organ toxicity - single exposure (Category 3)

**GHS Label elements:**  
- Pictograms:  
  - Signal word: Warning

**Hazards statement:**  
- H302 Harmful if swallowed.  
- H315 Causes skin irritation.  
- H319 Causes serious eye irritation.  
- H335 May cause respiratory irritation.

**Precautionary statement:**  
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
- P302 + P350 IF ON SKIN: Wash with plenty of soap and water.  
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
- P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

Section 3. Composition and information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS</th>
<th>Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-Di-(tert-butyl-d$_9$)-4-methylphenol-3,5-d$_2$, OD</td>
<td>64502-99-4</td>
<td>&gt; 98</td>
</tr>
</tbody>
</table>
Section 4. First aid measures

**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
**Skin contact:** Wash off with soap and plenty of water. Consult a physician.
**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Section 5. Firefighting measures

**Flammability of the product:** Not flammable or combustible.
**Lower explosion limit:** No data available
**Upper explosion limit:** No data available
**Auto-ignition temperature:** 470 °C (878 °F)
**Flash point:** 127 °C (261 °F)
**Products of combustion:** Hazardous decomposition products formed under fire conditions: Carbon oxides.
**Firefighting media and instructions:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
**Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

Section 6. Accidental release measures

**Personal precautions:** Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Avoid breathing dust.
**Environmental precautions:** Do not let product enter drains. Discharge into the environment must be avoided.
**Methods for cleaning up:** Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Section 7. Handling and storage

**Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation.
**Storage:** Store at room temperature. Adequate ventilation.

Section 8. Exposure Controls, Personal Protections

**Engineering controls:** Use mechanical exhaust or laboratory fume hood to avoid exposure.
**Eyes:** Safety glasses with side-shields conforming to NIOSH (US) or EN 166(EU).
**Respiratory:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US).
**Hands:** Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
**Skin/body:** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Section 9. Physical and chemical properties (unlabelled)

**Molecular weight:** 220.35 g/mol
**Physical status:** Solid
**Color:** White
**Odour:** No data available
**Density:** No data available
**Melting point:** 69 - 73 °C (156 - 163 °F)
**Boiling point:** 265 °C (509 °F)
**Vapour pressure:** 0.01 hPa (0.01 mmHg) at 20 °C (68 °F)
**Vapour density:** 7.6 (Air = 1)
**Partition coefficient (octanol/water):** log Pow: 5.1
**Water solubility:** 0.6 mg/l
Section 10. Stability and reactivity

Stability and reactivity: Stable under recommended storage conditions.
Incompatibility: Acid chlorides, acid anhydrides, oxidizing agents, bases, brass, copper.
Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides.
Reactivity conditions: No data available.

Section 11. Toxicological information (unlabelled)

Toxicological data: 2,6-Di-tert-butyl-4-methylphenol

Information on ingredients:

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS</th>
<th>LD50</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-Di-tert-butyl-4-methylphenol</td>
<td>128-37-0</td>
<td>Oral - Rat - 890 mg/kg</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Potential acute effects
- Eyes: Causes serious eye irritation.
- Skin: May be harmful if absorbed through skin. Causes skin irritation.
- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
- Ingestion: Harmful if swallowed.

Potential chronic effects
- Carcinogenic effects: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2,6-di-tert-Butyl-p-cresol).
- Teratogenic effects: No data available.
- Medical conditions aggravated by overexposure: No data available.

Section 12. Ecological information

Ecological data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Results</th>
<th>Species</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-Di-tert-butyl-4-methylphenol</td>
<td>5.3 mg/l LC50</td>
<td>Oryzias latipes</td>
<td>48 h</td>
</tr>
<tr>
<td></td>
<td>0.48 mg/l EC50</td>
<td>Daphnia magna</td>
<td>48 h</td>
</tr>
<tr>
<td></td>
<td>1.7 mg/l EC50</td>
<td>Protozoa</td>
<td>24 h</td>
</tr>
</tbody>
</table>

Effects on environment: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Mobility: No data available.
Environmental precautions: No data available.
Persistence and degradability: No data available.
Bioaccumulative potential: No data available.

Section 13. Disposal considerations

Waste disposal: Contact a licensed professional waste disposal service to dispose of this material.

Section 14. Transportation information

Classification DOT/IMDG/IATA label:
Shipping name: Not dangerous goods
UN number: None
Class: None
Packaging group: None
Additional information: None
Section 15. Regulatory information

UNITED STATES:
NFPA classification

Health: 2
Flammable: 1
Reactivity: 0
Special conditions: None

Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous

U.S. Federal regulations:

TSCA 8(b) inventory: 2,6-Di-tert-butyl-4-methylphenol
SARA 302/304/311/312 extremely hazardous substances: Not Listed
SARA 302/304 emergency planning and notification: Not Listed
SARA 302/304/311/312 hazardous chemicals: Not Listed
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard: Not Listed
CWA (Clean Water Act) 307: Not Listed
CWA (Clean Water Act) 311: Not Listed
CAA (Clean Air Act) 112 accidental release prevention: Not Listed
CAA (Clean Air Act) 112 regulated flammable substances: Not Listed
CAA (Clean Air Act) 112 regulated toxic substances: Not Listed

State regulations:

DEA List I Chemicals (Precursor Chemicals): Not Listed
DEA List II Chemicals (Essential Chemicals): Not Listed
Substances in Massachusetts: Not Listed
New York – Dangerous substances with acute effects: Not Listed
Dangerous substances in Pennsylvania – right to know: Not Listed

WHMIS (Canada):

D2B - Toxic material causing other toxic effects

Section 16. Additional information

References:
- Manufacturer’s Material Safety Data Sheet.
- 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. -Canada
- Federal act on the controlled products
- Toxicological repertory, HSC.
- Material safety data sheet from the components.

Date of issue: December 13th, 2018
Version: 2
Elaborated by: Toxyscan Inc., 1-866-780-0599

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