

## SAFETY DATA SHEET

Creation Date 09-Mar-2010

Revision Date 24-Dec-2021

Revision Number 7

### 1. Identification

**Product Name** 2,6-Di-tert-butyl-4-methylphenol

**Cat No. :** AC219830000; AC219830010; AC219830050; AC219830500;  
AC219832500

**CAS No** 128-37-0  
**Synonyms** BHT; Butylated hydroxytoluene; DBPC; Ionol; 2,6-Di-tert-butyl-p-cresol

**Recommended Use** Laboratory chemicals.  
**Uses advised against** Food, drug, pesticide or biocidal product use.

#### Details of the supplier of the safety data sheet

##### Company

Fisher Scientific Company  
One Reagent Lane  
Fair Lawn, NJ 07410  
Tel: (201) 796-7100

Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

**Emergency Telephone Number** For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11  
Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99  
**CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

### 2. Hazard(s) identification

#### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Label Elements

None required

#### Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

#### **Other hazards**

Contains a known or suspected endocrine disruptor.

### 3. Composition/Information on Ingredients

| Component                  | CAS No   | Weight % |
|----------------------------|----------|----------|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | >95      |

### 4. First-aid measures

|  |   |
|--|---|
| <b>General Advice</b>                      | If symptoms persist, call a physician.  |
| <b>Eye Contact</b>                         | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Skin Contact</b>                        | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. |
| <b>Inhalation</b>                          | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.      |
| <b>Ingestion</b>                           | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.             |
| <b>Most important symptoms and effects</b> | None reasonably foreseeable.  |
| <b>Notes to Physician</b>                  | Treat symptomatically   |

### 5. Fire-fighting measures

|   |   |
|---|---|
| <b>Suitable Extinguishing Media</b>     | Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam. |
| <b>Unsuitable Extinguishing Media</b>   | No information available  |
| <b>Flash Point</b>                      | 127 °C / 260.6 °F   |
| <b>Method -</b>                         | No information available  |
| <b>Autoignition Temperature</b>         | 345 °C / 653 °F   |
| <b>Explosion Limits</b>                 |   |
| <b>Upper</b>                            | No data available   |
| <b>Lower</b>                            | No data available   |
| <b>Sensitivity to Mechanical Impact</b> | No information available  |
| <b>Sensitivity to Static Discharge</b>  | No information available  |

#### Specific Hazards Arising from the Chemical

Do not allow run-off from fire-fighting to enter drains or water courses. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

#### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### NFPA

Health  
2

Flammability  
1

Instability  
0

Physical hazards  
N/A

## 6. Accidental release measures

|   |   |
|---|---|
| <b>Personal Precautions</b>                 | Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.   |
| <b>Environmental Precautions</b>            | Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. |
| <b>Methods for Containment and Clean Up</b> | Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.  |

## 7. Handling and storage

|                 |   |
|-----------------|---|
| <b>Handling</b> | Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.                               |
| <b>Storage.</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong acids. Bases. Acid chlorides. Acid anhydrides. copper. Copper alloys. Peroxides. |

## 8. Exposure controls / personal protection

### Exposure Guidelines

| Component                  | ACGIH TLV                | OSHA PEL                            | NIOSH IDLH                | Mexico OEL (TWA)         |
|----------------------------|--------------------------|-------------------------------------|---------------------------|--------------------------|
| 2,6-Di-tert-butyl-p-cresol | TWA: 2 mg/m <sup>3</sup> | (Vacated) TWA: 10 mg/m <sup>3</sup> | TWA: 10 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup> |

### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

|                             |  |
|-----------------------------|--|
| <b>Engineering Measures</b> | Ensure that eyewash stations and safety showers are close to the workstation location.<br>Ensure adequate ventilation, especially in confined areas. |
|-----------------------------|--|

### Personal Protective Equipment

|                                 |   |
|---------------------------------|---|
| <b>Eye/face Protection</b>      | Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.   |
| <b>Skin and body protection</b> | Wear appropriate protective gloves and clothing to prevent skin exposure.   |
| <b>Respiratory Protection</b>   | Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. |
| <b>Hygiene Measures</b>         | Handle in accordance with good industrial hygiene and safety practice.  |

## 9. Physical and chemical properties

|                            |                               |
|----------------------------|-------------------------------|
| <b>Physical State</b>      | Solid                         |
| <b>Appearance</b>          | White                         |
| <b>Odor</b>                | Slight phenolic               |
| <b>Odor Threshold</b>      | No information available      |
| <b>pH</b>                  | No information available      |
| <b>Melting Point/Range</b> | 69 - 71 °C / 156.2 - 159.8 °F |
| <b>Boiling Point/Range</b> | 265 °C / 509 °F @ 760 mmHg    |
| <b>Flash Point</b>         | 127 °C / 260.6 °F             |

|  |                                   |
|--|-----------------------------------|
| Evaporation Rate                       | Not applicable                    |
| Flammability (solid,gas)               | No information available          |
| Flammability or explosive limits       |                                   |
| Upper                                  | No data available                 |
| Lower                                  | No data available                 |
| Vapor Pressure                         | 0.02 mbar @ 20 °C                 |
| Vapor Density                          | Not applicable                    |
| Specific Gravity                       | No information available          |
| Solubility                             | Insoluble in water                |
| Partition coefficient; n-octanol/water | No data available                 |
| Autoignition Temperature               | 345 °C / 653 °F                   |
| Decomposition Temperature              | No information available          |
| Viscosity                              | Not applicable                    |
| Molecular Formula                      | C <sub>15</sub> H <sub>24</sub> O |
| Molecular Weight                       | 220.35                            |

## 10. Stability and reactivity

|                                  |   |
|----------------------------------|---|
| Reactive Hazard                  | None known, based on information available  |
| Stability                        | Stable under normal conditions.   |
| Conditions to Avoid              | Incompatible products. Excess heat. Avoid dust formation.   |
| Incompatible Materials           | Strong oxidizing agents, Strong acids, Bases, Acid chlorides, Acid anhydrides, copper, Copper alloys, Peroxides |
| Hazardous Decomposition Products | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )   |
| Hazardous Polymerization         | Hazardous polymerization does not occur.  |
| Hazardous Reactions              | None under normal processing.   |

## 11. Toxicological information

### Acute Toxicity

#### Product Information

##### Component Information

| Component                  | LD50 Oral        | LD50 Dermal      | LC50 Inhalation |
|----------------------------|------------------|------------------|-----------------|
| 2,6-Di-tert-butyl-p-cresol | > 6 g/kg ( Rat ) | > 2 g/kg ( Rat ) | Not listed      |

**Toxicologically Synergistic Products** No information available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                 |  |
|-----------------|--|
| Irritation      | May cause irritation of respiratory tract  |
| Sensitization   | No information available   |
| Carcinogenicity | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| Component                  | CAS No   | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|----------------------------|----------|------------|------------|------------|------------|------------|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Not listed | Not listed | Not listed | Not listed | Not listed |

**Mutagenic Effects** Mutagenic effects have occurred in humans. Not mutagenic in AMES Test

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

|  |  |
|--|--|
| STOT - single exposure                     | None known   |
| STOT - repeated exposure                   | None known   |
| Aspiration hazard                          | No information available                                       |
| Symptoms / effects, both acute and delayed | No information available                                       |
| Endocrine Disruptor Information            | No information available                                       |
| Other Adverse Effects                      | The toxicological properties have not been fully investigated. |

## 12. Ecological information

### Ecotoxicity

The product contains following substances which are hazardous for the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| Component                  | Freshwater Algae                            | Freshwater Fish       | Microtox   | Water Flea          |
|----------------------------|---|-----------------------|--|---------------------|
| 2,6-Di-tert-butyl-p-cresol | EC50 = 0.758 mg/L 96h<br>EC50 = 6 mg/L 72 h | LC50 = 0.199 mg/L 96h | EC50 = 7.82 mg/L 5 min<br>EC50 = 8.57 mg/L 15 min<br>EC50 = 8.98 mg/L 30 min | EC50 >0.31 mg/L 48h |

|                               |   |
|-------------------------------|---|
| Persistence and Degradability | May persist   |
| Bioaccumulation/ Accumulation | No information available.   |
| Mobility                      | . Is not likely mobile in the environment due its low water solubility. |

| Component                  | log Pow |
|----------------------------|---------|
| 2,6-Di-tert-butyl-p-cresol | 4.17    |

## 13. Disposal considerations

|                        |   |
|------------------------|---|
| Waste Disposal Methods | Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. |
|------------------------|---|

## 14. Transport information

### DOT

|                      |   |
|----------------------|---|
| UN-No                | UN3077  |
| Proper Shipping Name | Environmentally hazardous substances, solid, n.o.s. |
| Hazard Class         | 9   |
| Packing Group        | III   |

### TDG

|                      |   |
|----------------------|---|
| UN-No                | UN3077  |
| Proper Shipping Name | Environmentally hazardous substances, solid, n.o.s. |
| Hazard Class         | 9   |
| Packing Group        | III   |

### IATA

|                      |   |
|----------------------|---|
| UN-No                | UN3077  |
| Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.* |
| Hazard Class         | 9   |
| Packing Group        | III   |

### IMDG/IMO

|                      |   |
|----------------------|---|
| UN-No                | UN3077  |
| Proper Shipping Name | Environmentally hazardous substances, solid, n.o.s. |
| Hazard Class         | 9   |
| Packing Group        | III   |

## 15. Regulatory information

**United States of America Inventory**

| Component                  | CAS No   | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|----------------------------|----------|------|---|-----------------------------|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | X    | ACTIVE  | -                           |

**Legend:**

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

- - Not Listed

TSCA 12(b) - Notices of Export Not applicable

**International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component                  | CAS No   | DSL | NDSL | EINECS    | PICCS | ENCS | ISHL | AICS | IECSC | KECL     |
|----------------------------|----------|-----|------|-----------|-------|------|------|------|-------|----------|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | X   | -    | 204-881-4 | X     | X    | X    | X    | X     | KE-03079 |

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)**U.S. Federal Regulations**

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Component                  | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|----------------------------|---------------|------------|--------------|----------|--------------|
| 2,6-Di-tert-butyl-p-cresol | X             | X          | X            | -        | X            |

**U.S. Department of Transportation**

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

**Other International Regulations**

Mexico - Grade Slight risk, Grade 1

Authorisation/Restrictions according to EU REACH

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

| Component                  | CAS No   | OECD HPV | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|----------------------------|----------|----------|------------------------------|---------------------------|--|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Listed   | Not applicable               | Not applicable            | Not applicable                             |

| Component                  | CAS No   | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|----------------------------|----------|---|--|----------------------------|------------------------------------|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Not applicable  | Not applicable   | Not applicable             | Not applicable                     |

## 16. Other information

**Prepared By** Regulatory Affairs  
Thermo Fisher Scientific  
Email: EMSDS.RA@thermofisher.com

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**Revision Summary** This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**