

OXIRIS**SAFETY DATA SHEET**

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Revised edition no: 1.2

Date: 18/11/2008

Supersedes: 3/7/2008

IONOL CP**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

Trade name : IONOL CP
 Chemical description : 2,6-di-tert-butyl-p-cresol
 Synonyms : 2,6-Di-tert-butyl-4-methyl phenol, BHT
 Use : Food grade antioxidant (E-321), also applied to food packaging.
 Antioxidant for plastics and synthetic resins.
 Antioxidant for natural and synthetic rubbers/elastomers.
 Antioxidant for petroleum products.
 Antioxidant in coatings, printing inks, adhesives, waxes and leather treatment industry.
 Application in the foundry, colour, varnish and electric industry.
 Polymer stabilizer.
 Polymerization inhibitor.
 Stabilizer for cosmetics, pharmaceuticals and essential oils.

Transportation Emergency Number
 800-424-9300
 703-527-3887 (Collect Calls Accepted)

*Company identification : Oxiris Chemicals S.A
 Ctra.C-35 Km 59 - Pol. Ind. Nord-Est
 08470 Sant Celoni Spain
 Tel. +34 93 867 49 97
 Fax +34 93 867 41 68
 msds@oxirischemicals.com
 Emergency phone nr : +34 93 5517285 (CECAT)

Distributed by:
 PMC Specialties Group, Inc.
 501 Murray Road
 Cincinnati, Ohio 45217
 Phone: 513-242-3300

2. HAZARDS IDENTIFICATION

Hazards identification : Not expected to present a significant hazard under anticipated conditions of normal use.
 Caution : May form flammable/explosive dust-air mixture. Not classified as flammable but will burn.

3. COMPOSITION / INFORMATION ON INGREDIENTS**Components**

Substance name	Contents	CAS No	EC No	Index No	Classification
2,6-di-tert-butyl-p-cresol	>= 99.8 %	128-37-0	204-881-4	---	

4. FIRST AID MEASURES

General information : Not expected to present a significant hazard under anticipated conditions of normal use.
 First aid measures
 - Inhalation : Remove victim to fresh air. If you feel unwell, seek medical advice (show the label where possible).
 - Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water. May produce skin irritation. Obtain medical attention if pain, blinking or redness persist.
 - Eye contact : Rinse immediately with plenty of water. May cause eye irritation. Obtain ophthalmologist attention if pain, blinking, tears or redness persist.
 - Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
 Note to physician : Treat symptomatically. Repeated or prolonged skin contact may cause irritation.

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5. FIRE-FIGHTING MEASURES

- | | |
|--------------------------------------|---|
| Flammable class | : Not classified as flammable but will burn. |
| Hazardous combustion products | : Carbon monoxide. Carbon dioxide. |
| Extinguishing media | : Foam. Water spray. Dry powder. Carbon dioxide. Sand. Do not use a heavy water stream. |
| Surrounding fires | : Use water spray or fog for cooling exposed containers. |
| Protection against fire | : Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. |

6. ACCIDENTAL RELEASE MEASURES

- | | |
|----------------------------------|---|
| Personal precautions | : Avoid contact with skin, eyes and clothing. Do not breathe dust. Do not breathe vapour. Equip cleanup crew with proper protection. See section 8. |
| Technical measures | : Avoid the generation of airborne dust. Eliminate every possible source of ignition. Take precautionary measures against static discharges. |
| Environmental precautions | : Prevent entry to sewers and public waters.
Notify authorities if product enters sewers or public waters. |
| Clean up methods | : Do not use water for cleaning. Collect spills and put it into appropriated container. Recover and reclaim or recycle, if practical. Dispose in a safe manner in accordance with local/national regulations. |

7. HANDLING AND STORAGE

- | | |
|--------------------------------------|---|
| General | : Avoid the generation of airborne dust. Do not breathe dust. Do not breathe vapour. Avoid contact with skin, eyes and clothing. |
| Personal protection | : Wear recommended personal protective equipment. See section 8. |
| Technical protective measures | : Use special care to avoid static electric charges. Provide proper grounding. |
| Storage | : Keep container closed when not in use. Store in dry, cool, well-ventilated area.
Storage temperature : < 50°C |
| Storage - away from | : Oxidizer. Strong acids. Strong bases. Direct sunlight. In case of food use, do not store together with harmful, toxic or very toxic products. |
| Handling | : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. |
| Packing | : Paper bags with polyethylene liner. Fibre keg. Big-bag. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection



- | | |
|--------------------------------------|--|
| - Respiratory protection | : Where excessive dust may result, use approved respiratory protection equipment. |
| - Hand protection | : Use PVC gloves. |
| - Skin protection | : If skin contact or contamination of clothing is likely, protective clothing should be worn. Use safety shoes resistant to chemical products. |
| - Eye protection | : Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product. |
| - Ingestion | : When using, do not eat, drink or smoke. |
| Hygiene mesures | : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Wash clothing before re-using. |
| Technical protective measures | : Provide local exhaust or general room ventilation to minimize exposure to dust. |



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

- Occupational Exposure Limits** : 2,6-di-tert-butyl-p-cresol: TWA (EH 40 WEL) [mg/m³]: 10
2,6-di-tert-butyl-p-cresol: TWA (US) [mg/m³]: 2. Inhalable fraction and vapour.
- Exposure controls of environment** : In accordance with local and national regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state at 20 °C** : Solid. Crystalline.
- Colour** : White.
- Odour** : Characteristic.
- Melting point [°C]** : 70
- Boiling point [°C]** : 265 [1013 hPa]
- Density** : Circa 1.03 g/cm³ [20°C]
- Vapour pressure, 20°C** : 0.011 [hPa]
- Solubility in water** : 0.0006 g/l [20°C]
- Flash point [°C]** : 127
- Log P octanol / water at 20°C** : 5.1

10. STABILITY AND REACTIVITY

- Stability and reactivity** : Stable under recommended storage conditions.
- Hazardous decomposition products** : On exposure to high temperature, may decompose, releasing toxic/flammable vapours.
- Materials to avoid** : Strong acids. Oxidizing agent. Alkali Solution.
- Conditions to avoid** : Sources of ignition. Heat. Decomposes above 100 °C. May decompose upon contact with : Strong acids.

11. TOXICOLOGICAL INFORMATION

- Toxicity information** : May irritate eyes and skin.
- Sensitization** : No sensitizing potential.
- Rat oral LD50 [mg/kg]** : >2930
- LD50 rabbit dermal [mg/kg]** : >2000
- Carcinogenicity** : No carcinogenic effects known under normal conditions of use.
- Mutagenicity** : No evidence of mutagenic effects.

12. ECOLOGICAL INFORMATION

- Ecological effects information** : In the range of water solubility not toxic under test conditions.
- Bioaccumulative potential** : It is expected to have a bioaccumulation potential: Light - High
- Persistence - degradability** : Not readily biodegradable.
- Mobility** : Sinks in water. Adsorbs to soil and is not mobile.
- EC0 48 Hour - Daphnia magna [mg/l]** : >= 0.31
- LC0 96 Hour - Brachydanio rerio [mg/l]** : >= 0.57
- EC50 72h - Scenedesmus subspicatus [mg/l]** : > 0.42

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13. DISPOSAL CONSIDERATIONS

- General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
- Disposal method** : Recover or recycle. If not possible burn in an approved incinerator.
- Contaminated packaging** : Packaging which cannot be decontaminated should be disposed of like the material.

14. TRANSPORT INFORMATION

- General information** : Not regulated.

15. REGULATORY INFORMATION

- EU Labelling** : Not regulated under the criteria of EU.
- Contains** : 2,6-di-tert-butyl-p-cresol
- WGK class (Germany)** : 1. (Id. Nr.: 724)

16. OTHER INFORMATION

- Revision** : Revision - See : *
- Further information** : The information in this document should be made available to all who may handle the product.
For further information, contact your local company or agent.
- Recommended uses and restrictions**
- **Specific use:** : - E-321 Butylhydroxytoluene (BHT). Conservative and antioxidant allowed in certain conditions Directive 95/2/CE.
- Specific coating additive for the regenerated and recovered cellulose film: Directive 2007/42/CE. Restriction BHT: No more than 0,06 mg/dm² of coating on the food contact surface.
- **Food products: oils and greases:** : - Oils and greases for the professional production of food products. Maximum content: 100 mg/kg (mg/l) (BHT) expressed on fat.
- Oils and greases for fry, except the refuse of olives after pressing oil. Maximum content: 100 mg/kg (mg/l) (BHT) expressed on fat.
- Bacon, fish oil and greases of cattle, sheep and bird. Maximum content: 100 mg/kg (mg/l) (BHT) expressed on fat.
- **Food products: chewing gum:** : - Chewing gum. Maximum content: 400 mg/kg (mg/l) (gallates, BHA, BHT) individually or together.
- **Food products: Food complement:** : - Food complement as per Directive 2002/46/CE. Maximum content: 400 mg/kg (mg/l) (gallates, BHA, BHT) individually or together.

The contents and format of this SDS are in accordance with REACH Regulation (CE) N° 1907/2006 and the agreement of the United Nations ADR 2007 ECE/TRANS/185.

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