

# SAFETY DATA SHEET

## ADDITIN RC 7110



Version            Revision Date:            SDS Number:            Date of last issue: 09/22/2020  
2.0                02/19/2024                215000004959            Country / Language: US / EN

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### SECTION 1. IDENTIFICATION

Product name                : ADDITIN RC 7110  
Product code                : 000000000057784619

#### Manufacturer or supplier's details

Company                    : LANXESS Corporation  
                                  Product Safety & Regulatory Affairs  
                                  111 RIDC Park West Drive  
                                  Pittsburgh, Pennsylvania 15275-1112

Responsible Department    : (800) LANXESS  
                                  (412) 809-1000  
                                  lanxesshes@lanxess.com

Emergency telephone       : CHEMTREC (800) 424-9300 or  
                                  (703) 527-3887 (Outside U.S.A) and mention CCN12916.  
                                  Lanxess Emergency Phone (800) 410-3063.

#### Recommended use of the chemical and restrictions on use

Recommended use            : Additive for lubricants

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

Specific target organ toxicity : Category 3 (Respiratory system)  
- single exposure

#### GHS label elements

Hazard pictograms            : 

Signal Word                    : Warning

Hazard Statements            : May cause respiratory irritation.  
                                  May form combustible dust concentrations in air.

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Supplemental Hazard Statements : Prevent dust accumulation.  
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
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.  
Get medical attention if symptoms occur.  
In case of contact, flush skin or eyes with plenty of lukewarm water.

Precautionary Statements : **Prevention:**  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
Use only outdoors or in a well-ventilated area.

**Response:**  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

**Storage:**  
Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance  
Substance name : 2,6-di-tert-butyl-p-cresol

### Components

Chemical name	CAS-No.	Concentration (% w/w)
2,6-di-tert-butyl-p-cresol	128-37-0	> 95
methanol (Impurity)	67-56-1	< 0.3

## SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

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Do not leave the victim unattended.

- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms appear.
- In case of skin contact : Wash off with soap and water.  
Get medical attention if symptoms occur.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Get medical attention if symptoms appear.
- If swallowed : Rinse mouth with water.  
Do not induce vomiting unless directed to do by medical personnel.  
Get medical attention if symptoms occur.

### Most important symptoms and effects, both acute and delayed

- Symptoms : May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.
- Effects : May cause respiratory irritation.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician : No special actions required.

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## SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
- Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.
- Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide

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- Further information : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.  
No action shall be taken involving any personal risk or without suitable training.  
Cool containers/tanks with water spray.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid dust formation.  
No action shall be taken involving any personal risk or without suitable training.  
Keep unnecessary and unprotected personnel from entering.  
Do not touch or walk through spilled material.  
Remove all sources of ignition.  
Use personal protective equipment.  
Ensure adequate ventilation.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Move containers from spill area.  
Use non-sparking tools.  
Use explosion-proof electrical equipment.  
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).  
Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container.  
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).  
Do not allow into the sewerage system, surface waters or groundwater or into the soil.

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### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame).  
Avoid inhalation, ingestion and contact with skin and eyes.  
Use only with adequate ventilation.

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Electrical equipment should be protected to the appropriate standard.  
Take precautionary measures against static discharges.  
Empty containers retain product residue; observe all precautions for product.  
Workers should wash hands and face before eating, drinking and smoking.  
Put on appropriate personal protection equipment.  
Use non-sparking tools and equipment. Consult National Fire Protection Association (NFPA) 654 Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids for details on the safe handling and equipment design.

Conditions for safe storage : Store in accordance with local regulations.  
Minimize dust generation and accumulation, especially on elevated surfaces (e.g., roof beams and trusses, ventilation ducts, wall sills). A dust layer just 1/32nd of an inch(0.793 mm) deep on elevated surfaces may create a dust cloud explosion hazard.  
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.  
Keep away from heat and sources of ignition.  
Keep in a cool place away from oxidizing agents.  
Keep container closed when not in use.  
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.  
Do not store in unlabeled containers.  
Use appropriate container to avoid environmental contamination.  
Empty containers retain residue and can be dangerous.  
Do not reuse container.  
Keep away from water or moist air.

Recommended storage temperature : < 122 °F / < 50 °C

Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2,6-di-tert-butyl-p-cresol	128-37-0	TWA (Inhal-	2 mg/m3	ACGIH

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		able fraction and vapor)		
methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	OSHA Z-1

**Engineering measures** : Use only in an area equipped with explosion proof exhaust ventilation.  
If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Personal protective equipment

**Respiratory protection** : The following respirator is recommended if airborne concentrations exceed the appropriate standard/guideline.  
NIOSH approved, air-purifying particulate respirator with N-95 filters.

### Hand protection

**Material** : PVC  
**Wearing time** : < 60 min

**Eye protection** : Safety glasses with side-shields

**Skin and body protection** : Wear work clothing including long pants and long-sleeve shirts.

**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.  
Wash contaminated clothing before reusing.  
Ensure that eyewash stations and safety showers are close to the workstation location.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Crystalline solid  
**Physical state** : solid  
**Color** : colorless  
**Odor** : odorless

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Odor Threshold : No data available

pH : 6.5  
Concentration: 0.0001 %

Melting point/range : 157.6 °F / 69.8 °C

Boiling point/boiling range : 509 °F / 265 °C  
(1,013 hPa)

Flash point : 261 °F / 127 °C  
Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : May form combustible dust concentrations in air.

Self-ignition : No data available

Burning number : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : 0.0082507 hPa (68 °F / 20 °C)

Relative density : No data available

Density : 1.03 g/cm<sup>3</sup> (68 °F / 20 °C)

Bulk density : 650 kg/m<sup>3</sup>

Solubility(ies)  
Water solubility : 0.00076 g/l

|| Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : log Pow: 5.1  
Method: measured

Ignition temperature : > 752 °F / > 400 °C

Decomposition temperature : > 509 °F / > 265 °C

Viscosity  
Viscosity, dynamic : No data available

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Viscosity, kinematic : No data available  
Explosive properties : No data available  
Oxidizing properties : No data available  
Molecular weight : 220.35 g/mol  
Dust explosion class : St2

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : Stable under recommended storage conditions.

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

Conditions to avoid : Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. Avoid dust accumulation in enclosed space. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : No decomposition if stored and applied as directed.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Eye contact  
Skin contact  
Ingestion

#### Acute toxicity

Not classified based on available information.

#### Product:





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### **Skin corrosion/irritation**

Not classified based on available information.

#### **Components:**

##### **2,6-di-tert-butyl-p-cresol:**

Species                    : Rabbit  
Method                    : Draize Test  
Result                     : No skin irritation

##### **methanol:**

Species                    : Rabbit  
Result                     : No skin irritation

### **Serious eye damage/eye irritation**

Not classified based on available information.

#### **Components:**

##### **2,6-di-tert-butyl-p-cresol:**

Species                    : Rabbit  
Result                     : No eye irritation  
Method                    : Draize Test

##### **methanol:**

Species                    : Rabbit  
Result                     : No eye irritation

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

#### **Components:**

##### **2,6-di-tert-butyl-p-cresol:**

Test Type                    : Patch Test  
Routes of exposure           : Skin contact  
Species                      : Human  
Result                        : Does not cause skin sensitization.

Test Type                    : No data available  
Routes of exposure           : Skin contact

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Species : Guinea pig  
Method : No information available.  
Result : Did not cause sensitization on laboratory animals.  
GLP : No

### **methanol:**

Test Type : Maximization Test  
Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Did not cause sensitization on laboratory animals.  
GLP : No

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **2,6-di-tert-butyl-p-cresol:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No information available.

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: No information available.  
Result: negative  
GLP: No information available.

Test Type: HPRT test  
Test system: rat hepatocytes  
Metabolic activation: with metabolic activation  
Method: No information available.  
Result: negative  
GLP: No information available.

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Method: No information available.  
Result: negative  
GLP: No information available.

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Test Type: Cytogenetic assay  
Species: Rat (male)  
Cell type: Bone marrow  
Application Route: Oral  
Method: No information available.  
Result: negative  
GLP: No information available.

### **methanol:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No information available.

Test Type: HPRT test  
Test system: Chinese hamster fibroblasts  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: No information available.

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Intraperitoneal  
Method: OECD Test Guideline 474  
Result: negative  
GLP: No information available.

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **2,6-di-tert-butyl-p-cresol:**

Species : Rat, male and female  
Application Route : Oral  
Exposure time : 22 month(s)  
Dose : 0 - 25 - 100 - 250/500 mg/kg body weight  
NOAEL : 25 mg/kg bw/day  
Method : No information available.  
Result : equivocal  
GLP : Yes

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

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### methanol:

Species : Rat, male and female  
Application Route : Inhalation  
Exposure time : 24 month(s)  
Dose : 0,013 - 0,13 - 1,3 mg/l  
Frequency of Treatment : 20 h daily  
NOAEC : >= 1.3 mg/l  
Method : OECD Test Guideline 453  
Result : negative  
GLP : No information available.

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified based on available information.

### Product:

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Dose: 100 milligram per kilogram  
GLP: Yes

Species: Rat, male and female  
Application Route: Oral  
Dose: 500 milligram per kilogram  
GLP: Yes

### Components:

#### 2,6-di-tert-butyl-p-cresol:

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0 - 25 - 100 - 250/500  
Fertility: NOAEL: 500 mg/kg body weight  
Result: Animal testing did not show any effects on fertility.  
GLP: Yes

Effects on fetal development : Test Type: Two-generation study  
Species: Rat, male and female

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Application Route: Oral  
Dose: 0 - 25 - 100 - 250/500 milligram per kilogram  
General Toxicity Maternal: NOAEL: 100 mg/kg body weight  
Developmental Toxicity: NOAEL: 100 mg/kg body weight  
Method: No information available.  
Result: Embryotoxic effects and adverse effects on the off-spring were detected only at high maternally toxic doses  
GLP: Yes

Test Type: Pre-natal  
Species: Mouse, female  
Application Route: Oral  
Dose: 70 - 240 - 800 milligram per kilogram  
General Toxicity Maternal: NOAEL: 240 mg/kg body weight  
Developmental Toxicity: NOAEL: 800 mg/kg body weight  
Method: No information available.  
Result: Did not show teratogenic effects in animal experiments.  
GLP: No information available.

### STOT-single exposure

May cause respiratory irritation.

#### Components:

#### **2,6-di-tert-butyl-p-cresol:**

Assessment : May cause respiratory irritation.

#### **methanol:**

Target Organs : Central nervous system, Eyes  
Assessment : Causes damage to organs.

### STOT-repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### Product:

Species : Rat  
NOAEL : 25 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Number of exposures : daily  
Dose : 25 mg/kg  
GLP : Yes  
Remarks : Subacute toxicity

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### Components:

#### **2,6-di-tert-butyl-p-cresol:**

Species : Rat, male and female  
NOAEL : 25 mg/kg  
LOAEL : 100 mg/kg  
Application Route : Oral  
Exposure time : 22 Months  
Number of exposures : daily  
Dose : 0 - 25 - 100 - 250/500 mg/kg bw/day  
Method : No information available.  
GLP : Yes  
Symptoms : alteration in liver enzymes  
Remarks : Chronic toxicity

Species : Pig, male and female  
          : 1500 ppm  
Application Route : Oral  
Exposure time : 42 Days  
Number of exposures : daily  
Dose : 0 - 150 - 1000 - 1500 parts per million  
Method : No information available.  
GLP : Yes  
Remarks : Subacute toxicity

#### **Aspiration toxicity**

Not classified based on available information.

#### **Further information**

#### Product:

Remarks : No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### Components:

#### **2,6-di-tert-butyl-p-cresol:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0.57 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: Regulation (EC) No. 440/2008, Annex, C.1  
GLP: Yes  
Remarks: Fresh water

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.48 mg/l

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aquatic invertebrates      End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 202  
GLP: Yes  
Remarks: Fresh water

Toxicity to algae/aquatic plants      :      ErC50 (Desmodesmus subspicatus (green algae)): > 0.4 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: Regulation (EC) No. 440/2008, Annex, C.3  
GLP: Yes  
Remarks: Fresh water

EC10 (Desmodesmus subspicatus (green algae)): 0.4 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: Regulation (EC) No. 440/2008, Annex, C.3  
GLP: Yes  
Remarks: Fresh water

Toxicity to fish (Chronic toxicity)      :      NOEC (Oryzias latipes (Orange-red killifish)): 0.053 mg/l  
Exposure time: 42 d  
Test Type: flow-through test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 210  
GLP: Yes  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)      :      NOEC (Daphnia magna (Water flea)): 0.023 mg/l  
End point: Reproduction  
Exposure time: 21 d  
Test Type: semi-static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 202  
GLP: Yes  
Remarks: Fresh water

Toxicity to microorganisms      :      EC50 (activated sludge): > 10,000 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 209  
GLP: Yes



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Remarks: Fresh water  
nominal concentration

Toxicity to soil dwelling organisms : Test Type: Reproduction Test  
NOEC (Eisenia fetida (earthworms)): 25 mg/kg  
Exposure time: 28 d  
End point: Reproduction  
Method: OECD Test Guideline 222  
GLP: Yes

Plant toxicity : NOEC: 4.74 mg/kg  
Exposure time: 17 d  
End point: Growth inhibition  
Species: Allium cepa  
Method: OECD Test Guideline 208  
GLP: Yes

EC50: 20.9 mg/kg  
Exposure time: 17 d  
End point: Growth inhibition  
Species: Allium cepa  
Method: OECD Test Guideline 208  
GLP: Yes

### methanol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l  
Exposure time: 96 h  
Analytical monitoring: Yes  
Method: EPA-660/3-75-009  
GLP: No information available.  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l  
Exposure time: 48 h  
Analytical monitoring: No  
Method: DIN 38412  
GLP: No  
Remarks: Fresh water

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (microalgae)): ca. 22,000 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Analytical monitoring: No information available.  
Method: OECD Test Guideline 201  
GLP: No information available.  
Remarks: Fresh water

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

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Exposure time: 3 h  
Analytical monitoring: Yes  
Method: OECD Test Guideline 209  
GLP: No information available.  
Remarks: Fresh water

### Persistence and degradability

#### Product:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 4.5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

#### Components:

##### **2,6-di-tert-butyl-p-cresol:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Result: Not readily biodegradable.  
Biodegradation: 4.5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C  
GLP: No information available.

Stability in water : Degradation half life (DT50): 4 - 8 d  
Hydrolysis: at 20 °C

Photodegradation : Sensitizer: OH  
Degradation (indirect photolysis):  
Degradation half life: 21.054 h

##### **methanol:**

Biodegradability : aerobic  
Concentration: 3 mg/l  
Result: Readily biodegradable.  
Biodegradation: 76 %  
Exposure time: 5 d  
Method: Closed Bottle test  
GLP: No

Photodegradation : Degradation (indirect photolysis): 50 %

### Bioaccumulative potential

#### Components:

##### **2,6-di-tert-butyl-p-cresol:**

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Bioaccumulation : Bioconcentration factor (BCF): > 2,000

Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 781  
Exposure time: 56 d  
Temperature: 77 °F / 25 °C  
Concentration: 0.05 mg/l  
Method: OECD Test Guideline 305  
GLP: No information available.

Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 839  
Exposure time: 56 d  
Temperature: 77 °F / 25 °C  
Concentration: 0.005 mg/l  
Method: OECD Test Guideline 305  
GLP: No information available.

Partition coefficient: n-octanol/water : log Pow: 5.1  
Method: measured

### methanol:

Partition coefficient: n-octanol/water : log Pow: -0.77  
Method: Calculated value

### Mobility in soil

#### Components:

#### **2,6-di-tert-butyl-p-cresol:**

Mobility : Medium: Soil  
Content: 82.9 %  
Method: Calculation, Mackay Level III Fugacity Model

Medium: Water  
Content: 8.53 %  
Method: Calculation, Mackay Level III Fugacity Model

Medium: Sediment  
Content: 7.23 %  
Method: Calculation, Mackay Level III Fugacity Model

Medium: Air  
Content: 1.33 %  
Method: Calculation, Mackay Level III Fugacity Model

Distribution among environmental compartments : log Koc: 4.17  
Method: estimated

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Stability in soil : Test Type: aerobic degradation  
Soil temperature: 54 °F / 12 °C  
Radio label: Yes  
pH: 5.7  
Cation exchange capacity: 16 m\_/kg  
Biomass: 214 mg/kg  
Method: OECD Test Guideline 307  
GLP: Yes

Test Type: aerobic degradation  
Soil temperature: 54 °F / 12 °C  
Radio label: Yes  
pH: 6.6  
Cation exchange capacity: 47 m\_/kg  
Biomass: 265.7 mg/kg  
Method: OECD Test Guideline 307  
GLP: Yes

Test Type: aerobic degradation  
Soil temperature: 54 °F / 12 °C  
Radio label: Yes  
pH: 7.4  
Cation exchange capacity: 265 m\_/kg  
Biomass: 531.8 mg/kg  
Method: OECD Test Guideline 307  
GLP: Yes

Test Type: aerobic degradation  
Soil temperature: 54 °F / 12 °C  
Radio label: Yes  
pH: 7.2  
Cation exchange capacity: 257 m\_/kg  
Biomass: 938.7 mg/kg  
Method: OECD Test Guideline 307  
GLP: Yes

### Other adverse effects

#### **Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life.  
Harmful to aquatic life with long lasting effects.

#### **Components:**

**2,6-di-tert-butyl-p-cresol:**

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Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT). Substance is not very persistent and very bioaccumulative (vPvB).

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste from residues : The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. When uncleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues. Empty containers retain product residue; observe all precautions for product. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### IATA-DGR

UN/ID No. : UN 3077  
Proper shipping name : Environmentally hazardous substance, solid, n.o.s. (2,6-DI-TERT-BUTYL-P-CRESOL)  
Class : 9  
Packing group : III  
Labels : 9



Packing instruction (cargo aircraft) : 956 : 400.00 KG  
Packing instruction (passen- : 956 : 400.00 KG

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ger aircraft)  
Environmentally hazardous : yes



### IMDG-Code

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(2,6-DI-TERT-BUTYL-P-CRESOL)  
Class : 9  
Packing group : III  
Labels : 9  
:



EmS Code : F-A, S-F  
Marine pollutant : yes



### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

UN/ID/NA number : UN 3077  
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(2,6-DI-TERT-BUTYL-P-CRESOL)

Class : 9  
Packing group : III  
Labels : 9  
:



ERG Code : 171  
Marine pollutant : yes

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### Hazard and Handling Notes.

Environmentally hazardous substance.

Keep dry.

Keep separated from foodstuffs

The U.S. DOT regulations in 49 CFR 172.102 permit this material to ship as an Environmentally Hazardous Substance, Class 9, using Special Provision 146.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet.

Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Combustible dust  
Specific target organ toxicity (single or repeated exposure)

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### US State Regulations

#### Massachusetts Right To Know

2,6-di-tert-butyl-p-cresol	128-37-0	> 95
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#### Pennsylvania Right To Know

2,6-di-tert-butyl-p-cresol	128-37-0	> 95
methanol	67-56-1	< 0.3

#### California Prop. 65

WARNING: This product can expose you to chemicals including methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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### TSCA inventory

TSCA : All substances listed as active on the TSCA inventory

### TSCA list

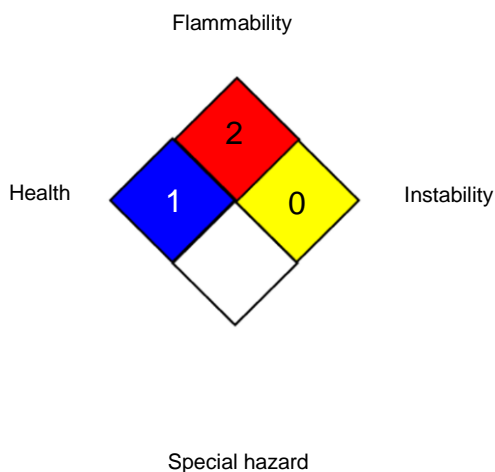
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

HEALTH	/	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / STEL : Short-term exposure limit  
OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Exist-



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ing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.