SAFETY DATA SHEET
according to the OSHA Hazard Communication Standard

ADDITIN RC 7110

Version	Revision Date:	SDS Number:	Date of last issue: 02/19/2024
3.0	10/13/2025	215000004959	Country / Language: US / EN

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

SECTION 2. HAZARDS IDENTIFICATION

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

Hazards for the product as supplied

Combustible dust

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

Other hazards

None known.

GHS label elements

Hazard pictograms :

Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.
H335 May cause respiratory irritation.

Precautionary Statements :

Prevention:

P261 Avoid breathing dust.
P271 Use only outdoors or in a well-ventilated area.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)
2,6-di-tert-butyl-p-cresol	128-37-0*	100
methanol (Impurity)	67-56-1*	0.2999

* Indicates that the identifier is a CAS No.
Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

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

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO_2.
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 (CO2) Carbon monoxide
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.

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.

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. 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 (Inhalable fraction and vapor)	2 mg/m3	ACGIH
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

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 vapor density	:	No data available
Relative density	:	No data available
Density	:	1.03 g/cm3 (68 °F / 20 °C)
Bulk density	:	650 kg/m3
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
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
Particle size	:	No data available

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 Strong acids alkalis
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
Eye contact
Skin contact
Ingestion

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 200 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

Components:

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

Acute oral toxicity	:	LD50 (Rat, male and female): > 2,930 mg/kg Method: OECD Test Guideline 401 GLP: Yes

Assessment: The substance or mixture has no acute oral toxicity
Remarks: Dosage caused no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: Yes
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Dosage caused no mortality

methanol:

Acute oral toxicity : (Human): Assessment: The component/mixture is toxic after single ingestion.

Acute toxicity estimate: 100 mg/kg
Method: Expert judgment

Acute inhalation toxicity : Acute toxicity estimate (Human): 3 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Expert judgment

Acute dermal toxicity : (Human): Assessment: The component/mixture is toxic after single contact with skin.

Acute toxicity estimate: 300 mg/kg
Method: Expert judgment

Skin corrosion/irritation

Not classified due to lack of data.

Components:

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

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

methanol:

Species : Rabbit
Result : No skin irritation

Serious eye damage/eye irritation

Not classified due to lack of data.

Components:

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

Species : Rabbit

Result	:	No eye irritation
Method	:	Draize Test
GLP	:	No

methanol:

Species	:	Rabbit
Result	:	No eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

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.

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 due to lack of data.

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: equivalent or similar to OECD 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.

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 due to lack of data.

Components:

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

Carcinogenicity - Assess- : Based on available data, the classification criteria are not

ment met., Weight of evidence does not support classification as a carcinogen

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 due to lack of data.

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 mg/kg bw/day
Fertility: NOAEL: 500 mg/kg bw/day
Early Embryonic Development: NOAEL: 100 mg/kg bw/day
Result: Animal testing did not show any effects on fertility.
GLP: Yes

Effects on fetal development : Test Type: Pre-natal
Species: Mouse, female
Application Route: oral (gavage)

Dose: 70 - 240 - 800 mg/kg bw/day
General Toxicity Maternal: NOAEL: 240 mg/kg bw/day
Developmental Toxicity: NOAEL: 800 mg/kg bw/day
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 due to lack of data.

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

Components:

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

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

Aspiration toxicity

Not classified due to lack of data.

Further information

Product:

Remarks : No data available

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 aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.48 mg/l
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 (Japanese medaka)): 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: equivalent or similar to OECD Guideline 209 GLP: Yes Remarks: Fresh water nominal concentration
Toxicity to soil dwelling organisms	:	Test Type: Reproduction Test NOEC (Eisenia fetida (earthworms)): 25 mg/kg Exposure time: 56 d End point: Reproduction Method: OECD Test Guideline 222 GLP: Yes
Plant toxicity	:	NOEC: 4.74 mg/kg Exposure time: 17 d End point: Shoot fresh weight Species: Allium cepa Analytical monitoring: Yes Method: OECD Test Guideline 208 GLP: Yes EC50: 20.9 mg/kg Exposure time: 17 d End point: Shoot fresh weight Species: Allium cepa Analytical monitoring: Yes Method: OECD Test Guideline 208 GLP: Yes

methanol:

Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l Exposure time: 96 h Test Type: flow-through test 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 End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: No Method: DIN 38412 GLP: No Remarks: Fresh water nominal concentration
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): ca. 22,000 mg/l End point: Growth rate Exposure time: 96 h Test Type: static test 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 End point: Respiration inhibition Exposure time: 3 h Test Type: static test Analytical monitoring: Yes Method: OECD Test Guideline 209 GLP: No information available. Remarks: Fresh water
Toxicity to soil dwelling organisms	:	Test Type: Reproduction Test EC50 (Eisenia fetida (earthworms)): 26,646 mg/kg Exposure time: 63 d Method: OECD Test Guideline 222 GLP: No information available. Test Type: Reproduction Test NOEC (Eisenia fetida (earthworms)): 10,000 mg/kg Exposure time: 63 d Method: OECD Test Guideline 222 GLP: No information available.

Ecotoxicology Assessment

Acute aquatic toxicity	:	Very toxic to fish.

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
Biochemical oxygen demand
Result: Not readily biodegradable.
Biodegradation: 4.5 %
Exposure time: 28 d
Method: OECD Test Guideline 301C
GLP: No information available.

aerobic
Inoculum: activated sludge
Result: Not inherently biodegradable.
Biodegradation: 5.5 %
Exposure time: 35 d
Method: OECD Test Guideline 302C
GLP: No

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

Photodegradation : Sensitizer: OH

methanol:

Biodegradability : aerobic
Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.
Biodegradation: 95 %
Exposure time: 20 d
Method: Closed Bottle test
GLP: No

Photodegradation : Degradation (indirect photolysis): 50 % Degradation half life: 17.2 d

Bioaccumulative potential

Components:

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

Bioaccumulation : Bioconcentration factor (BCF): 1,277

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

methanol:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): < 10
Remarks: Does not bioaccumulate.

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
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.
Very toxic to aquatic life with long lasting effects.

Components:

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

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 (passenger aircraft)	:	956: 400.00 KG
Environmentally hazardous	:	yes
		

IMDG-Code

UN number	:	UN 3077
UN 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
		

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.

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

Pennsylvania Right To Know

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

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.

TSCA inventory

TSCA : All substances listed as active on the TSCA inventory

TSCA list

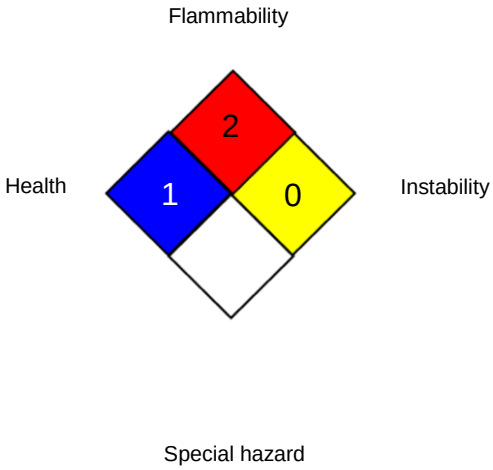
No substances are subject to a Significant New Use Rule.

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

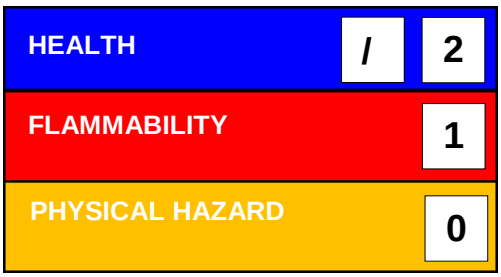
SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:



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 Standardization; 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 - Existing 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 Organization 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, Authorization 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

Revision Date : 10/13/2025

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.

US / EN