# ADDITIN RC 9330 N

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SECTION 1	. IDENTIFICATION			
Produc	ct name	:	ADDITIN RC 933	0 N
Produc	ct code	:	0000000006262	9358
Manuf	acturer or supplier's	deta	ils	
Compa		:	LANXESS Corpo Product Safety & 111 RIDC Park V	Regulatory Affairs
Respo	nsible Department	:	(800) LANXESS (412) 809-1000 lanxesshes@lan:	xess.com
Emerg	ency telephone	:		0) 424-9300 or Outside U.S.A) and mention CCN12916. ncy Phone (800) 410-3063.
Recon	nmended use of the c	hem	ical and restriction	ons on use

Recommended use : Additive for lubricants

## **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR<br/>1910.1200)Skin irritation:Category 2Eye irritation:Category 2ASkin sensitization:Category 1Specific target organ toxicity<br/>- single exposure:Category 3 (Respiratory system)GHS label elements<br/>Hazard pictograms::Kategory 3 (Respiratory system)::

Signal Word

:

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Hazaı	d Statements	Causes serious	allergic skin reaction.
Preca	utionary Statements	Wash skin thor Use only outdoo Contaminated v workplace.	mist or vapors. bughly after handling. ors or in a well-ventilated area. vork clothing must not be allowed out of the gloves/ eye protection/ face protection.
		IF INHALED: Re for breathing. C well. IF IN EYES: Rir Remove contac rinsing. If skin irritation p If eye irritation p	ash with plenty of soap and water. emove person to fresh air and keep comfortab all a POISON CENTER/ doctor if you feel un- nse cautiously with water for several minutes. et lenses, if present and easy to do. Continue or rash occurs: Get medical advice/ attention. persists: Get medical advice/ attention. hinated clothing and wash before reuse.
		Storage:	
		Store in a well-v Store locked up	ventilated place. Keep container tightly closed.
		Disposal:	
		Dispose of cont plant.	ents/ container to an approved waste disposal

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 43.3 %

#### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
2,6-di-tert-butyl-p-cresol	128-37-0	>= 20 - < 30
Amines, C11-14-branched alkyl,	80939-62-4	>= 20 - < 30



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monohexyl and dihexyl phosphates		
1H-Benzotriazole-1-methanamine,	94270-86-7	>= 1 - < 5
N,N-bis(2-ethylhexyl)-ar-methyl-		

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	:	Get medical attention immediately. Remove victim to fresh air and keep at rest in a position com- fortable for breathing. If unconscious, place in recovery position and get medical attention immediately. Maintain open airway. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained per- sonnel.
In case of skin contact	:	Wash off with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 20 minutes. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 20 minutes. Get medical attention if symptoms appear.
If swallowed	:	Rinse mouth with water. Do not induce vomiting unless directed to do by medical per- sonnel. Get medical attention if symptoms occur.
Most important symptoms a	nd	effects, both acute and delayed
Symptoms	:	<ul><li>Eye: Causes irritation with symptoms of reddening, tearing, stinging, and swelling.</li><li>May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.</li><li>Skin: Causes irritation with symptoms of reddening, itching, and swelling.</li><li>Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li></ul>

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	Effects		:	<ul> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>May cause respiratory irritation.</li> </ul>	
	Protect	ion of first-aiders	:	No action shall be suitable training.	taken involving any personal risk or without
	Notes t	o physician	:	Treat symptomati	cally.
SEC	TION 5	. FIRE-FIGHTING ME	ASL	IRES	
	Suitabl	e extinguishing media	:	Use water spray, bon dioxide.	alcohol-resistant foam, dry chemical or car-
	Unsuita media	able extinguishing	:	None known.	
	Specific fighting	c hazards during fire	:	Do not allow run-o courses.	off from fire fighting to enter drains or water
	Hazard ucts	lous combustion prod-	:	Carbon dioxide (C Carbon monoxide Nitrogen oxides (I phosphorus oxide	NOx)
	Further	information	:	must not be disch Fire residues and	ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.
		l protective equipment fighters	:	Wear self-contain essary.	ed breathing apparatus for firefighting if nec-

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protection equipment. Do not touch or walk through spilled material. Evacuate unnecessary personnel. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Do not breathe vapors, aerosols.
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
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	hods and materials for tainment and cleaning up		closed containers for disposal.
		follows. Contain spillage, material, (e.g. sa and transfer to a national regulatio Dispose of waste Do not allow into groundwater or in	from spill area. nto an effluent treatment plant or proceed as soak up with non-combustible absorbent nd, earth, diatomaceous earth, vermiculite) container for disposal according to local / ons (see section 13). the sewerage system, surface waters or nto the soil. psorbent material may pose the same hazard

## SECTION 7. HANDLING AND STORAGE

Advice on safe handling	<ul> <li>Remove contaminated clothing and protective equipment before entering eating areas.</li> <li>Workers should wash hands and face before eating, drinking and smoking.</li> <li>Put on appropriate personal protection equipment.</li> <li>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.</li> <li>Avoid inhalation, ingestion and contact with skin and eyes.</li> <li>Use only with adequate ventilation.</li> <li>Persons with a history of skin sensitization to this product should not be employed in any process in which this product is used.</li> </ul>
Conditions for safe storage	<ul> <li>Store in accordance with local regulations.</li> <li>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.</li> <li>Keep containers sealed until ready for use.</li> <li>Containers that have been opened must be carefully resealed and kept upright to prevent leakage.</li> <li>Do not store in unlabeled containers.</li> <li>Use appropriate container to avoid environmental contamination.</li> <li>Empty containers retain residue and can be dangerous.</li> <li>Do not reuse container.</li> </ul>
Further information on stor- age stability	: Stable under recommended storage conditions.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
2,6-di-tert-butyl-p-cresol	128-37-0	TWA (Inhal- able fraction and vapor)	2 mg/m3	ACGIH
Engineering measures :	use process e engineering c	enclosures, local ontrols to keep v	ist, fumes, gas, vapol exhaust ventilation o vorker exposure to ai nmended or statutory	r other rborne
Personal protective equipmer	nt			
Respiratory protection :	quired. In the case of proved filter. In case of mis	vapor formation	ctive equipment norm use a respirator with sol exposure wear suind protective suit.	an ap-
Hand protection Material : Wearing time :	Nitrile rubber < 60 min			
Remarks :		ose of them acc	uct change the gloves ording to relevant na	
Eye protection :	Safety glasse	S		
Skin and body protection :	Impervious cl Protective sui	-		
Hygiene measures :	Wash hands, forearms and face thoroughly after chemical products, before eating, smoking and us lavatory and at the end of the working period. Appropriate techniques should be used to remove contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers to the workstation location.			ng the

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Oily liquid.
Physical state	:	liquid
Color	:	light yellow
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	Not applicable substance/mixture is non-soluble (in water)
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point		309 °F / 154 °C
	•	Method: ASTM D 93, Pensky-Martens closed cup
Eveneration rate		
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	0.95 g/cm3 (68 °F / 20 °C)
Solubility(ies) Water solubility	:	slightly soluble
Partition coefficient: n- octanol/water	:	No data available
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Ignitic	on temperature	: No data availa	able
Decor	mposition temperature	: No data availa	able
Viscosity Viscosity, kinematic		: 95.6 mm2/s (1	104 °F / 40 °C)
Explo	sive properties	: No data availa	able
Oxidiz	zing properties	: No data availa	able

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Under normal conditions of storage and use, hazardous reac- tions will not occur.
Conditions to avoid	:	No data available
Incompatible materials	:	No specific data.
Hazardous decomposition products	:	No hazardous decomposition products are known.

## SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Product:

TTOUGOL		
Acute oral 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 tox-

icity



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Acute	dermal toxicity	Method: OEC GLP: Yes Assessment: toxicity	ale and female): > 2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute derma sage caused no mortality		
Amine	es, C11-14-branche	d alkyl, monohexyl a	nd dihexyl phosphates:		
	oral toxicity	: LD50 (Rat): >			
Acute	dermal toxicity	GLP: Yes	Remarks: Extrapolation according to Regulation (EC) No.		
1H-Be	enzotriazole-1-metha	anamine, N,N-bis(2-e	ethylhexyl)-ar-methyl-:		
Acute	oral toxicity	Method: OEC GLP: No	ale and female): 3,313 mg/kg D Test Guideline 401 st results on an analogous product		
Acute	dermal toxicity	Method: OEC GLP: Yes Assessment: toxicity	ale and female): > 2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute derma at results on an analogous product		
Skin d	corrosion/irritation				
Cause	es skin irritation.				
Comp	onents:				
2,6-di	-tert-butyl-p-cresol:				
Specie Metho Result	d	: Rabbit : Draize Test : No skin irritati	on		
Amine	es, C11-14-branche	d alkyl, monohexyl a	nd dihexyl phosphates:		
Specie	es	: Rabbit			
Metho Result		: OECD Test G : Irritating to ski			
1H-Be	enzotriazole-1-metha	anamine, N.N-bis(2-e	ethylhexyl)-ar-methyl-:		
Specie Metho	es	: Rabbit : Draize Test			



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Resul GLP	t	: Irritating to skir : No	).
Rema	arks		an analogous product
	us eye damage/eye		
	es serious eye irritatio	n.	
	<u>oonents:</u>		
	i-tert-butyl-p-cresol:	D	
Speci		: Rabbit	-
Resul Metho		: No eye irritation : Draize Test	
mound			
			nd dihexyl phosphates:
Speci Resul		: Rabbit	•
Metho		: Irritating to eye : OECD Test Gu	
Weth		. 0200 1031 00	
1H-B	enzotriazole-1-metha	anamine, N,N-bis(2-et	hylhexyl)-ar-methyl-:
Speci		: Rabbit	
Resul	-	: No eye irritation	
Metho GLP	Da	: OECD Test Gu : No	lideline 405
Rema	arks		an analogous product
Resp	iratory or skin sensi	tization	
Skin	sensitization		
May c	ause an allergic skin	reaction.	
Resp	iratory sensitization		
Not cl	assified based on ava	ailable information.	
<u>Comp</u>	oonents:		
2,6-di	i-tert-butyl-p-cresol:		
Test		: Patch Test	
	es of exposure	: Skin contact	
Speci Resul		: Human	e skin sensitization.
176201	i.		
Test 1	Гуре	: No data availal	ble
Route	es of exposure	: Skin contact	
Speci		: Guinea pig	
Metho		: No information	
Resul GLP	τ	: Did not cause : : No	sensitization on laboratory animals.
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## Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:

	Skin contact Guinea pig
	OECD Test Guideline 406 Did not cause sensitization on laboratory animals.

#### 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:

Test Type	: Maximization Test
Routes of exposure	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: The product is a skin sensitiser, sub-category 1B.
GLP	: Yes
Remarks	: Test results on an analogous product

## 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.
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			nation available.
		Species: Rat (r Cell type: Bone Application Ro Method: No inf Result: negativ	e marrow ute: Oral ormation available.
Amin	es. C11-14-branched		nd dihexyl phosphates:
	toxicity in vitro	: Test system: B Metabolic activ	acteria ation: with and without metabolic activation Test Guideline 471
		Metabolic activ	lammalian-Animal ation: with and without metabolic activation ) Test Guideline 476 e
		Metabolic activ	lammalian-Animal ation: with and without metabolic activation ) Test Guideline 473 e
1H-Be	enzotriazole-1-metha	namine, N,N-bis(2-et	hylhexyl)-ar-methyl-:
Geno	toxicity in vitro	Metabolic activ Method: OECD Result: negativ GLP: No	almonella typhimurium ation: with and without metabolic activation ) Test Guideline 471
		Method: OECD Result: negativ GLP: No	scherichia coli ation: with and without metabolic activation ) Test Guideline 471
		Test system: C Metabolic activ	itro mammalian cell gene mutation test chinese hamster fibroblasts ation: with and without metabolic activation D Test Guideline 476

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Result: negative GLP: Yes Remarks: Test results on an analogous product

Test Type: Micronucleus test Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 487 Result: negative GLP: Yes Remarks: Test results on an analogous product

#### Carcinogenicity

Not classified based on available information.

## **Components:**

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

Species Application Ro Exposure time Dose NOAEL Method Result GLP		Rat, male and female Oral 22 month(s) 0 - 25 - 100 - 250/500 mg/kg body weight 25 mg/kg bw/day No information available. equivocal Yes		
Carcinogenicity ment	y - Assess- :	Carcinogenicity classification not possible from current data.		
5		of this product present at levels greater than or equal to 0.1% is obable, possible or confirmed human carcinogen by IARC.		
OSHA		f this product present at levels greater than or equal to 0.1% is fregulated carcinogens.		
5		this product present at levels greater than or equal to 0.1% is nown or anticipated carcinogen by NTP.		
Reproductive Not classified b Components:	based on available	information.		

## 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
	Dose: 0 - 25 - 100 - 250/500



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				500 mg/kg body weight sting did not show any effects on fertility.
Effec	Effects on fetal development		General Toxicity Developmental T Method: No inform Result: Embryoto	le and female e: Oral 0 - 250/500 milligram per kilogram Maternal: NOAEL: 100 mg/kg body weight oxicity: NOAEL: 100 mg/kg body weight
			General Toxicity Developmental T Method: No inform	female e: Oral 800 milligram per kilogram Maternal: NOAEL: 240 mg/kg body weight oxicity: NOAEL: 800 mg/kg body weight mation available. now teratogenic effects in animal experi-
	nes, C11-14-branched a ts on fertility	: :	Species: Rat, ma Application Route Early Embryonic weight	le and female e: Oral Development: NOAEL: 10 mg/kg body
				ffects on early embryonic development. est Guideline 422
1H-B	enzotriazole-1-methana	ami	ne, N,N-bis(2-ethy	/lhexyl)-ar-methyl-:
Effec	ts on fertility	:	Species: Rat, ma Application Route Dose: 0 - 15 - 45 General Toxicity Fertility: NOAEL: Early Embryonic Method: OECD T Result: Animal te GLP: Yes	
Effec	ts on fetal development	:	Test Type: Pre-na	atal



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		General Toxici Teratogenicity: Developmenta Embryo-fetal to Method: OECD Result: Did not ments. GLP: Yes	
May	<b>F-single exposure</b> cause respiratory irrita	tion.	
2,6-d	ponents: i-tert-butyl-p-cresol: ssment	: May cause res	piratory irritation.
Not c <b>Repe</b>	F-repeated exposure lassified based on ava eated dose toxicity ponents:	ailable information.	
Spec NOAI LOAE Applie Expo Num! Dose Methe GLP	EL EL cation Route sure time ber of exposures od	<ul> <li>Rat, male and</li> <li>25 mg/kg</li> <li>100 mg/kg</li> <li>Oral</li> <li>22 Months</li> <li>daily</li> <li>0 - 25 - 100 - 2</li> <li>No information</li> <li>Yes</li> <li>alteration in live</li> <li>Chronic toxicity</li> </ul>	50/500 mg/kg bw/day available. er enzymes
Expo	cation Route sure time per of exposures	<ul> <li>Pig, male and f</li> <li>1500 ppm</li> <li>Oral</li> <li>42 Days</li> <li>daily</li> <li>0 - 150 - 1000</li> <li>No information</li> <li>Yes</li> </ul>	- 1500 parts per million

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Rema	arks	:	Subacute toxici	ty	
1H-B	enzotriazole-1-metha	anami	ne. N.N-bis(2-et	hvlhexvl)-ar-methvl-:	
Spec		:	Rat, male and f		
	NOAEL		150 mg/kg		
	cation Route	:	Oral		
	sure time	:	90 Days		
Dose	ber of exposures	:	daily 0 - 15 - 45 - 15(	) ma/ka bw/day	
Meth			OECD Test Gui		
GLP	•••	:	Yes		
Rema	arks	:	Subchronic toxi		
			Test results on	an analogous product	
Spec	ies	:	Rat, male and f	emale	
NOA		:	45 mg/kg		
LOAE		:	150 mg/kg		
	cation Route ber of exposures	:	Oral		
Dose	•	:	: daily : 0 - 15 - 45 - 150 mg/kg bw/day		
Meth		÷	OECD Test Gui		
GLP		:	Yes		
Rema	arks	:	Test results on an analogous product		
۵sni	ration toxicity				
-	lassified based on ava	ailable	information.		
Furth	ner information				
Prod	uot:				
Rema			No data availab	ble	
		•			
SECTION	12. ECOLOGICAL IN	IFORI	MATION		
Ecot	oxicity				
<u>Com</u>	ponents:				
2,6-d	li-tert-butyl-p-cresol:				
	city to fish	:	LC50 (Danio re	rio (zebra fish)): > 0.57 mg/l	
			Exposure time:	96 h	
			Test Type: sem		
				ation (EC) No. 440/2008, Annex, C.1	
			GLP: Yes Remarks: Fresh	n water	
			itemains. Fiesi		

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



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aquatio	c invertebrates	End point: Imr Exposure time Test Type: sta Analytical mor Method: OEC GLP: Yes Remarks: Fre	e: 48 h atic test nitoring: Yes D Test Guideline 202
Toxicit plants	y to algae/aquatic	End point: Gro Exposure time Test Type: sta Analytical mor	e: 72 h atic test nitoring: Yes Ilation (EC) No. 440/2008, Annex, C.3
		End point: Gro Exposure time Test Type: sta Analytical mor	e: 72 h atic test nitoring: Yes Ilation (EC) No. 440/2008, Annex, C.3
Toxicit icity)	y to fish (Chronic tox-	Exposure time Test Type: flo Analytical mor	w-through test nitoring: Yes D Test Guideline 210
	y to daphnia and other c invertebrates (Chron- city)	End point: Re Exposure time Test Type: se Analytical more	e: 21 d mi-static test nitoring: Yes D Test Guideline 202
Toxicit	y to microorganisms	End point: Re Exposure time Test Type: sta Analytical more	atic test



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			Remarks: Fresh nominal concer		
Toxici ganisr	ty to soil dwelling or- ns	:	Exposure time: End point: Repr	fetida (earthworms)): 25 mg/kg 28 d	
Plant toxicity		:	<ul> <li>NOEC: 4.74 mg/kg Exposure time: 17 d End point: Growth inhibition Species: Allium cepa Method: OECD Test Guideline 208 GLP: Yes</li> </ul>		
			EC50: 20.9 mg, Exposure time: End point: Grov Species: Allium Method: OECD GLP: Yes	17 d vth inhibition	
			GLP: Yes		
Amin	es, C11-14-branched a	lkyl		d dihexyl phosphates:	
	e <b>s, C11-14-branched a</b> ty to fish	lkyl :	, <b>monohexyl an</b> LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): 5.5 mg/l	
Toxici Toxici		:	, monohexyl an LC50 (Oncorhy Exposure time: Method: OECD EC50 (Daphnia Exposure time:	nchus mykiss (rainbow trout)): 5.5 mg/l 96 h Test Guideline 203 magna (Water flea)): 1.2 mg/l	
Toxici Toxici aquati	ty to fish ty to daphnia and other c invertebrates ty to algae/aquatic	:	, monohexyl an LC50 (Oncorhy Exposure time: Method: OECD EC50 (Daphnia Exposure time: Method: OECD ErC50 (Pseudo mg/l Exposure time:	nchus mykiss (rainbow trout)): 5.5 mg/l 96 h Test Guideline 203 magna (Water flea)): 1.2 mg/l 48 h Test Guideline 202 kirchneriella subcapitata (microalgae)): > 1	
Toxici Toxici aquati Toxici	ty to fish ty to daphnia and other c invertebrates ty to algae/aquatic	:	, monohexyl an LC50 (Oncorhy Exposure time: Method: OECD EC50 (Daphnia Exposure time: Method: OECD ErC50 (Pseudo mg/l Exposure time: Method: OECD EC50 (Pseudok Exposure time:	nchus mykiss (rainbow trout)): 5.5 mg/l 96 h Test Guideline 203 magna (Water flea)): 1.2 mg/l 48 h Test Guideline 202 kirchneriella subcapitata (microalgae)): > 1 72 h Test Guideline 201 kirchneriella subcapitata (algae)): > 10	
Toxici aquati Toxici plants	ty to fish ty to daphnia and other c invertebrates ty to algae/aquatic	:	, monohexyl an LC50 (Oncorhy Exposure time: Method: OECD EC50 (Daphnia Exposure time: Method: OECD ErC50 (Pseudo mg/l Exposure time: Method: OECD EC50 (Pseudok Exposure time: Method: OECD EC50 (activated Exposure time:	nchus mykiss (rainbow trout)): 5.5 mg/l 96 h Test Guideline 203 magna (Water flea)): 1.2 mg/l 48 h Test Guideline 202 kirchneriella subcapitata (microalgae)): > 10 72 h Test Guideline 201 kirchneriella subcapitata (algae)): > 10 72 h Test Guideline 201 d sludge): > 100 mg/l	
Toxici aquati Toxici plants	ty to fish ty to daphnia and other c invertebrates ty to algae/aquatic	· · · · · · · · · · · · · · · · · · ·	, monohexyl an LC50 (Oncorhy Exposure time: Method: OECD EC50 (Daphnia Exposure time: Method: OECD ErC50 (Pseudo mg/l Exposure time: Method: OECD EC50 (Pseudoł Exposure time: Method: OECD EC50 (activated Exposure time: Method: OECD	nchus mykiss (rainbow trout)): 5.5 mg/l 96 h Test Guideline 203 magna (Water flea)): 1.2 mg/l 48 h Test Guideline 202 kirchneriella subcapitata (microalgae)): > 10 72 h Test Guideline 201 kirchneriella subcapitata (algae)): > 10 72 h Test Guideline 201 d sludge): > 100 mg/l 3 h Test Guideline 209	



ersion .0	Revision Date: 04/03/2024	SDS Number: 203000021116	Date of last issue: - Country / Language: US / EN
		GLP: No Remarks: Fresh nominal concer	ic test toring: No Test Guideline 203 n water
	ty to daphnia and other ic invertebrates	Exposure time: Test Type: stati Analytical moni Method: OECD GLP: Yes Remarks: Fresh nominal concer	ic test toring: Yes Test Guideline 202 n water
Toxici plants	ty to algae/aquatic	End point: Grov Exposure time: Test Type: stati Analytical moni Method: OECD GLP: Yes Remarks: Fresh nominal concer	72 h ic test toring: Yes Test Guideline 201 n water
		End point: Grov Exposure time: Test Type: stati Analytical moni Method: OECD GLP: Yes Remarks: Fresh nominal concer	72 h ic test toring: Yes Test Guideline 201 n water
	ity to daphnia and other ic invertebrates (Chron- city)	End point: Rep Exposure time: Test Type: sem Analytical moni	21 d ii-static test toring: No Test Guideline 211 n water



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	.0 04/03/2024 2 Toxicity to microorganisms :		s on an analogous product hnia magna (Water flea)): 0.435 mg/l Reproduction me: 21 d semi-static test nonitoring: No ECD Test Guideline 211 Fresh water ncentration s on an analogous product vated sludge): 15 mg/l Respiration inhibition me: 3 h nonitoring: No ECD Test Guideline 209 Fresh water ncentration s on an analogous product vated sludge): 69 mg/l Respiration inhibition me: 3 h ncentration s on an analogous product vated sludge): 69 mg/l Respiration inhibition me: 3 h nonitoring: No ECD Test Guideline 209
		Remarks: F nominal co Test results	
Pers	istence and degradabil	ity	
<u>Com</u>	ponents:		
	<b>li-tert-butyl-p-cresol:</b> egradability	Result: Not Biodegrada Exposure ti Method: Of	activated sludge readily biodegradable. ation: 4.5 % me: 28 d ECD Test Guideline 301C formation available.
Stabi	ility in water	: Degradatio Hydrolysis:	n half life (DT50): 4 - 8 d at 20 °C



ersion 0	Revision Date: 04/03/2024	SDS Number:Date of last issue: -203000021116Country / Language: US / EN	
Photo	odegradation	: Sensitizer: OH Degradation (indirect photolysis): Degradation half life: 21.054 h	
	e <b>s, C11-14-branche</b> egradability	alkyl, monohexyl and dihexyl phosphates: : Result: Not readily biodegradable. Biodegradation: 12 % Exposure time: 28 d Method: OECD Test Guideline 301B	
Bioad	ccumulative potentia		
Com	ponents:		
<b>2,6-d</b> i	i-tert-butyl-p-cresol:		
Bioac	cumulation	: 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.	
	ion coefficient: n- ol/water	: log Pow: 5.1 Method: measured	
Mobi	lity in soil		
Com	ponents:		
<b>2,6-d</b> i	i-tert-butyl-p-cresol:		
Mobil	ity	: Medium: Soil Content: 82.9 % Method: Calculation, Mackay Level III Fugacity	Vodel
		Medium: Water Content: 8.53 % Method: Calculation, Mackay Level III Fugacity I	Model
		01/07	



Version 1.0	Revision Date: 04/03/2024	SDS Number: 203000021116	Date of last issue: - Country / Language: US / EN
		Medium: Air Content: 1.33	% Ilation, Mackay Level III Fugacity Model
	bution among environ- al compartments	: log Koc: 4.17 Method: estim	ated
Stability in soil		Soil temperatu Radio label: Y pH: 5.7 Cation exchan Biomass: 214	ge capacity: 16 m_/kg
		Soil temperatu Radio label: Y pH: 6.6 Cation exchan Biomass: 265	ge capacity: 47 m_/kg
		Soil temperatu Radio label: Y pH: 7.4 Cation exchan Biomass: 531	ge capacity: 265 m_/kg
		Soil temperatu Radio label: Y pH: 7.2 Cation exchan Biomass: 938	ge capacity: 257 m_/kg

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Othe	adverse effects			
<u>Com</u>	oonents:			
Resu	<b>-tert-butyl-p-cresol:</b> ts of PBT and vPvB sement	:		persistent, bioaccumulative, and toxic (PBT) very persistent and very bioaccumulative
	13. DISPOSAL CONSI	DER	ATIONS	
Dispo	osal methods			
RCR/	A - Resource Conserva-	:		purchased form, this product would not be a
	nd Recovery Authoriza- ct		er, under RCRA, determine at the t ing the product or	either by listing or by characteristic. However, it is the responsibility of the product user to ime of disposal, whether a material contain- derived from the product should be classi- us waste. (40 CFR 261.20-24)

Waste disposal should be in accordance with existing federal,

state, provincial and/or local environmental controls.

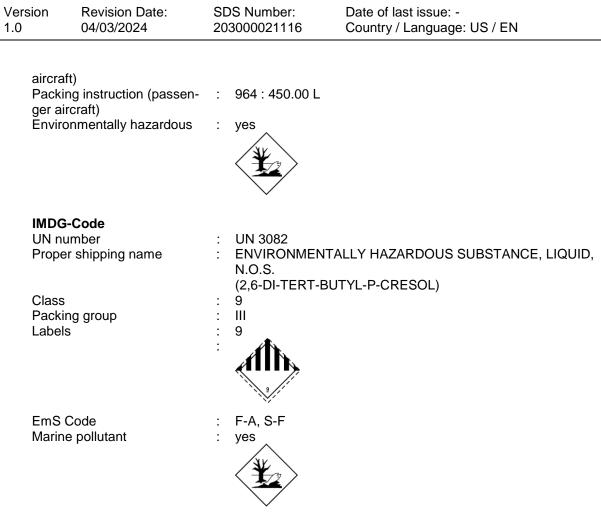
#### **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulations**

IATA-DGR UN/ID No. Proper shipping name Class Packing group	<ul> <li>UN 3082</li> <li>Environmentally hazardous substance, liquid, n.o.s. (2,6-DI-TERT-BUTYL-P-CRESOL)</li> <li>9</li> <li>III</li> </ul>
Labels	
Packing instruction (cargo	: 964 : 450.00 L

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## 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 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (2,6-DI-TERT-BUTYL-P-CRESOL)
Class	:	9
Packing group	:	III
Labels	:	9
	:	
ERG Code		171
Marine pollutant	:	yes
	•	yoo

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#### Hazard and Handling Notes.

Environmentally hazardous substance. Irritating to skin and eyes. 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 H SARA 313		Respiratory or skin sensiti Skin corrosion or irritation Serious eye damage or ey Specific target organ toxic This material does not cor	ve irritation ity (single or repeatent ntain any chemical c	omponents with
		known CAS numbers that reporting levels establishe		
US State Regula	tions			
Massachusetts I	Right To Know			
2,6-di-te	ert-butyl-p-creso	l	128-37-0	20 - 30
Pennsylvania Right To Know				
	Proprietary non-hazardous ingredient			> 1
	2,6-di-tert-butyl-p-cresol			20 - 30
	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates			20 - 30
	bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine		15721-78-5	> 1

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	methanol		67-56-1	< 0.1

#### 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: Flammability HEALTH 2 1 FLAMMABILITY 1 Health Instability 2 0 **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 Special hazard a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / 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



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(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 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.