

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 11/11/2014 Supersedes:08/28/2014

Version: 2.1

	Revision date: 11/11/2014	Supersedes:08/2	28/2014	Version: 2.1
SECTION 1: Identification of t	he substance/mixture and	d of the company/ur	ndertaking	
1.1. Product identifier			3	
Trade name	: P150-32 PAG Refrige	eration Lubricant 150		
Product code	: P150-32			
1.2. Relevant identified uses of	the substance or mixture and us	ses advised against		
Use of the substance/mixture		based lubricant for use in a	air conditionina	systems.
1.3. Details of the supplier of the	, , ,			-,
Tire Seal, Inc.	e salety data sheet			
3574 Corona Street				
33461 Lake Worth, Florida - USA T 561-582-2245 - F 561-582-1499				
www.supercool.ac				
1.4. Emergency telephone num	ber			
Emergency number	: USA PHONE:1-800-3	373-7542, INT'L: 1-484-95	1-2432	
	DGA/AAG ENVIRON	IMENTAL CONTRACT: DO	GA4000-048	
<b>SECTION 2: Hazards identific</b>	ation			
2.1. Classification of the substa				
Classification (GHS-US)				
Not classified				
2.2. Label elements				
GHS-US labeling				
No labeling applicable				
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GF	IS-US)			
No data available				
<b>SECTION 3: Composition/info</b>	rmation on ingredients			
3.1. Substance				
Not applicable				
Full text of H-phrases: see section 16				
3.2. Mixture				
Name	Product iden	tifier	%	Classification (GHS-US)
2,6-di-tert-butyl-p-cresol	(CAS No) 128-37	·-0	0.1 - 1	Acute Tox. 4 (Oral), H302
<b>SECTION 4: First aid measure</b>	es			
4.1. Description of first aid mea				
First-aid measures general			us person. If yo	ou feel unwell, seek medical
First-aid measures after inhalation		thing. Allow the victim to re	est.	
First-aid measures after skin contact		•		n mild soap and water, followed
First-aid measures after eye contact	by warm water rinse. : Rinse immediately wi		medical attenti	on if pain, blinking or redness
First-aid measures after ingestion	persist.	T induce vomiting. Obtain		
-	and effects, both acute and dela	-	Line goney me	
Symptoms/injuries			der anticipater	d conditions of normal use.
		_		
A.S. Indication of any influence	e medical attention and special t			
SECTION 5: Firefighting meas				
5.1. Extinguishing media sSuitable extinguishing media	· Foam Dry powdor (	Carbon dioxide. Water spra	av Sand	
Unsuitable extinguishing media	: Do not use a heavy v	•	.y. Cana.	
	-			
5.2. Special hazards arising from				

No additional information available

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		<i>y</i> , ivia	
5.3.	Advice for firefighters		
Firefighti	ing instructions	:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protectio	on during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection.
SECTI	ON 6: Accidental release mea	ISU	res
6.1.	Personal precautions, protective ed	quip	oment and emergency procedures
6.1.1.	For non-emergency personnel		
Emerger	ncy procedures	:	Evacuate unnecessary personnel.
6.1.2.	For emergency responders		
Protectiv	ve equipment	:	Equip cleanup crew with proper protection.
Emerger	ncy procedures	:	Ventilate area.
6.2.	Environmental precautions		
Prevent	entry to sewers and public waters. Noti	fy a	uthorities if liquid enters sewers or public waters.
6.3.	Methods and material for containm	ent	and cleaning up
Methods	for cleaning up	:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collec spillage. Store away from other materials.
6.4.	Reference to other sections		
See Hea	ading 8. Exposure controls and persona	l pro	otection.
SECTI	ON 7: Handling and storage		
7.1.	Precautions for safe handling		
Precautio	ons for safe handling	:	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
7.2.	Conditions for safe storage, includ	ing	any incompatibilities
Storage	conditions	:	Keep container closed when not in use.
Incompo	tible producte		Strong bases. Strong acids

Storage conditions	-	Keep container closed when not in use.
Incompatible products	:	Strong bases. Strong acids.
Incompatible materials	:	Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

#### **SECTION 8: Exposure controls/personal protection Control parameters** 8.1. 2,6-di-tert-butyl-p-cresol (128-37-0) ACGIH TWA (mg/m<sup>3</sup>) USA ACGIH 2 mg/m<sup>3</sup> 8.2. **Exposure controls**

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: The use of gloves impervious to the specific material handled is advised to prevent skin contact. Suggested protective material: Nitrile, 4.5 mil thickness, tested at 3.5 ml and above with no breakthrough time after 240 minutes.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Where there is potential for airborne exposure above the exposure limit an approved air purifying respirator equipped with Type P2 - Medium efficiency particle filters may be used.
Other information	: Do not eat, drink or smoke during use.

<b>SECTION 9: Physical and chemica</b>	I properties
9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Appearance	: Clear.
Color	: Colorless to Yellowish.
Odor	: Characteristic.
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 200 °C Calculated

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Flash point	:	204 °C Closed Cup
Self ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	No data available
Log Pow	:	No data available
Log Kow	:	No data available
Viscosity, kinematic	:	124 - 139 cSt @40⁰C
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Explosive limits	:	No data available

9.2. **Other information** No additional information available

No additional information available
SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
Not established.
10.3. Possibility of hazardous reactions
Not established.
10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.
10.5. Incompatible materials
Strong acids. Strong bases.
10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

### **SECTION 11: Toxicological information**

11.1.	Information on toxicological effects		
Acute tox	icity	:	Not classified

2,6-di-tert-butyl-p-cresol (128-37-0)	
LD50 oral rat	890 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; >6000 mg/kg bodyweight; Rat)
LD50 dermal rat	> 2000 mg/kg (Rat; Literature study; OECD 402: Acute Dermal Toxicity; >2000 mg/kg bodyweight; Rat; Experimental value)
ATE (oral)	890.000 mg/kg body weight
3,4-epoxycyclohexylmethyl-3,4-epoxycyclohe	xylcarboxylate (2386-87-0)
LD50 oral rat	4490 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 5000 mg/kg bodyweight; Rat)
LD50 dermal rat	> 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 20 mg/l/4h (Rat)
ATE (oral)	4490.000 mg/kg body weight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
2,6-di-tert-butyl-p-cresol (128-37-0)	
IARC group	3
Reproductive toxicity	: Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified

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Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met
Aspiration hazard	: Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Toxic to aquatic life.
2,6-di-tert-butyl-p-cresol (128-37-0)	
LC50 fish 1	0.199 mg/l (96 h; Pisces)
EC50 Daphnia 1	0.48 mg/l (48 h; Daphnia magna; GLP)
Threshold limit algae 1	> 0.4 mg/l (72 h; Scenedesmus subspicatus; GLP)
Threshold limit algae 2	0.363 mg/l (Algae; Chronic)
3,4-epoxycyclohexylmethyl-3,4-epoxycyclohe	
LC50 fish 1	24 mg/l (96 h; Oncorhynchus mykiss; GLP)
EC50 Daphnia 1	40 mg/l (48 h; Daphnia magna; GLP)
Threshold limit algae 1	> 110 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)
12.2. Persistence and degradability	
P150-32 PAG Refrigeration Lubricant 150 Persistence and degradability	Not established.
tricresyl phosphates, mixture of isomers, con	
Persistence and degradability	Readily biodegradable in water.
2,6-di-tert-butyl-p-cresol (128-37-0)	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil. Adsorbs into the soil. Low potential for mobility in soil. Photooxidation in the air.
Biochemical oxygen demand (BOD)	0.51 g O <sup>2</sup> /g substance
Chemical oxygen demand (COD)	2.27 g O <sup>2</sup> /g substance
ThOD	2.977 g O <sup>2</sup> /g substance
BOD (% of ThOD)	0.17 % ThOD
3,4-epoxycyclohexylmethyl-3,4-epoxycyclohe	
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available. Low potential for adsorption in soil. Highly mobile in soil.
ThOD	2.16 g O <sup>2</sup> /g substance
12.3. Bioaccumulative potential	
P150-32 PAG Refrigeration Lubricant 150	
Bioaccumulative potential	Not established.
tricresyl phosphates, mixture of isomers, con	c o-tricresvl phosphate>95% (1330-78-5)
Log Pow	5.11 (Experimental value)
2,6-di-tert-butyl-p-cresol (128-37-0)	
BCF fish 1	230 - 2500 (56 days; Cyprinus carpio)
Log Pow	5.1 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation ( $500 \le BCF \le 5000$ ).
3,4-epoxycyclohexylmethyl-3,4-epoxycyclohe	
Log Pow	1.34 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
12.4. Mobility in soil	
2,6-di-tert-butyl-p-cresol (128-37-0)	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
	· · · · · · · · · · · · · · · · · · ·
12.5. Other adverse effects	
	: Avoid release to the environment.
<b>SECTION 13: Disposal considerations</b>	
13.1. Waste treatment methods	
Waste disposal recommendations	: Disposal should be made in accordance with federal, state and local regulations.
Ecology - waste materials	: Avoid release to the environment.

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	ort information			
in accordance with ADR / RI	D / IMDG / IATA / ADN			
14.1. UN number				
Not applicable				
14.2. UN proper shippi	ng name			
Not applicable	<b>J</b>			
14.3. Additional informat	ion			
Other information		o supplementary information avai	lable	
Overland transport				
Not regulated				
Transport by sea				
Not regulated				
Air transport				
Not regulated				
SECTION 15: Regulat	ory information			
15.1. US Federal regulation				
No additional information ava				
15.2. International regulation	ons			
CANADA				
P150-32 PAG Refrigeration	on Lubricant 150			
WHMIS Classification	C	lass D Division 2 Subdivision B -	Toxic material causing other tox	kic effects
EU-Regulations				
No additional information ava	ailahla			
Classification according to	Regulation (EC) No. 12	72/2008 [CLP]		
Not classified				
Classification according to	Directive 67/548/EEC o	r 1999/45/EC		
15.2.2. National regulation	one			
No additional information ava				
15.3. US State regulations	ailable			
15.3. US State regulations P150-32 PAG Refrigeration	ailable Lubricant 150()			
15.3. US State regulations P150-32 PAG Refrigeration U.S California - Proposition	ailable <b>Lubricant 150()</b> n 65 - Carcinogens List	No		
15.3. US State regulations P150-32 PAG Refrigeration	ailable <b>Lubricant 150()</b> n 65 - Carcinogens List	No No		
<b>15.3. US State regulations</b> <b>P150-32 PAG Refrigeration</b> U.S California - Proposition U.S California - Proposition	ailable <b>Lubricant 150()</b> n 65 - Carcinogens List n 65 - Developmental			
15.3. US State regulations P150-32 PAG Refrigeration U.S California - Proposition U.S California - Proposition Toxicity	ailable <b>Lubricant 150()</b> n 65 - Carcinogens List n 65 - Developmental	No		
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<ul> <li>15.3. US State regulations</li> <li>P150-32 PAG Refrigeration</li> <li>U.S California - Proposition</li> <li>Toxicity</li> <li>U.S California - Proposition</li> <li>Toxicity - Female</li> <li>U.S California - Proposition</li> <li>Toxicity - Male</li> <li>tricresyl phosphates, mixter</li> <li>U.S California -</li> </ul>	ailable <b>Lubricant 150()</b> n 65 - Carcinogens List n 65 - Developmental n 65 - Reproductive n 65 - Reproductive <b>ure of isomers,</b> conc o-tri U.S California -	No No No icresyl phosphate>95% (1330-78- U.S California -	U.S California -	No significance risk level
<ul> <li>15.3. US State regulations</li> <li>P150-32 PAG Refrigeration</li> <li>U.S California - Proposition</li> <li>Toxicity</li> <li>U.S California - Proposition</li> <li>Toxicity - Female</li> <li>U.S California - Proposition</li> <li>Toxicity - Female</li> <li>U.S California - Proposition</li> <li>Toxicity - Male</li> <li>tricresyl phosphates, mixture</li> </ul>	ailable <b>Lubricant 150()</b> n 65 - Carcinogens List n 65 - Developmental n 65 - Reproductive n 65 - Reproductive ure of isomers, conc o-tri	No No No icresyl phosphate>95% (1330-78- U.S California - Proposition 65 -	-	No significance risk level (NSRL)
<ul> <li>15.3. US State regulations</li> <li>P150-32 PAG Refrigeration</li> <li>U.S California - Proposition</li> <li>Toxicity</li> <li>U.S California - Proposition</li> <li>Toxicity - Female</li> <li>U.S California - Proposition</li> <li>Toxicity - Male</li> <li>tricresyl phosphates, mixter</li> <li>U.S California - Proposition</li> <li>Toxicity - Male</li> </ul>	ailable <b>Lubricant 150()</b> n 65 - Carcinogens List n 65 - Developmental n 65 - Reproductive n 65 - Reproductive <b>ure of isomers,</b> conc o-tri U.S California - Proposition 65 -	No No No icresyl phosphate>95% (1330-78- U.S California - Proposition 65 -	U.S California - Proposition 65 -	
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<ul> <li>15.3. US State regulations</li> <li>P150-32 PAG Refrigeration</li> <li>U.S California - Proposition</li> <li>Toxicity</li> <li>U.S California - Proposition</li> <li>Toxicity - Female</li> <li>U.S California - Proposition</li> <li>Toxicity - Male</li> <li>tricresyl phosphates, mixtre</li> <li>U.S California -</li> <li>Proposition 65 -</li> <li>Carcinogens List</li> <li>No</li> <li>2,6-di-tert-butyl-p-cresol (1</li> <li>U.S California -</li> <li>Proposition 65 -</li> <li>Carcinogens List</li> <li>No</li> </ul>	ailable <b>Lubricant 150()</b> n 65 - Carcinogens List n 65 - Developmental n 65 - Reproductive n 65 - Reproductive <b>ure of isomers,</b> conc o-tri U.S California - Proposition 65 - Developmental Toxicity No <b>28-37-0)</b> U.S California - Proposition 65 - Developmental Toxicity No	No         No         No         icresyl phosphate>95% (1330-78-         U.S California -         Proposition 65 -         Reproductive Toxicity -         Female         No         U.S California -         Proposition 65 -         Reproductive Toxicity -         Female         No         No         No	U.S California - Proposition 65 - Reproductive Toxicity - Male No U.S California - Proposition 65 - Reproductive Toxicity -	(NSRĽ)
<ul> <li>15.3. US State regulations</li> <li>P150-32 PAG Refrigeration</li> <li>U.S California - Proposition</li> <li>Toxicity</li> <li>U.S California - Proposition</li> <li>Toxicity - Female</li> <li>U.S California - Proposition</li> <li>Toxicity - Male</li> <li>tricresyl phosphates, mixtu</li> <li>U.S California - Proposition 65 - Carcinogens List</li> <li>No</li> <li>2,6-di-tert-butyl-p-cresol (1</li> <li>U.S California - Proposition 65 - Carcinogens List</li> </ul>	ailable <b>Lubricant 150()</b> n 65 - Carcinogens List n 65 - Developmental n 65 - Reproductive n 65 - Reproductive <b>ure of isomers,</b> conc o-tri U.S California - Proposition 65 - Developmental Toxicity No <b>28-37-0)</b> U.S California - Proposition 65 - Developmental Toxicity No	No         No         No         icresyl phosphate>95% (1330-78-         U.S California -         Proposition 65 -         Reproductive Toxicity -         Female         No         U.S California -         Proposition 65 -         Reproductive Toxicity -         Female         No         No         No	U.S California - Proposition 65 - Reproductive Toxicity - Male No U.S California - Proposition 65 - Reproductive Toxicity - Male	(NSRĽ)
<ul> <li>15.3. US State regulations</li> <li>P150-32 PAG Refrigeration</li> <li>U.S California - Proposition</li> <li>Toxicity</li> <li>U.S California - Proposition</li> <li>Toxicity - Female</li> <li>U.S California - Proposition</li> <li>Toxicity - Male</li> <li>tricresyl phosphates, mixtre</li> <li>U.S California -</li> <li>Proposition 65 -</li> <li>Carcinogens List</li> <li>No</li> <li>2,6-di-tert-butyl-p-cresol (1</li> <li>U.S California -</li> <li>Proposition 65 -</li> <li>Carcinogens List</li> <li>No</li> <li>3,4-epoxycyclohexylmethy</li> <li>U.S California -</li> <li>Proposition 65 -</li> </ul>	ailable <b>Lubricant 150()</b> n 65 - Carcinogens List n 65 - Developmental n 65 - Reproductive n 65 - Reproductive <b>ure of isomers,</b> conc o-tri U.S California - Proposition 65 - Developmental Toxicity No <b>28-37-0)</b> U.S California - Proposition 65 - Developmental Toxicity No <b>1-3,4-epoxycyclohexylca</b> U.S California - Proposition 65 -	No         No         No         icresyl phosphate>95% (1330-78-         U.S California -         Proposition 65 -         Reproductive Toxicity -         Female         No         U.S California -         Proposition 65 -         Reproductive Toxicity -         Female         No         Image: No	U.S California - Proposition 65 - Reproductive Toxicity - Male No U.S California - Proposition 65 - Reproductive Toxicity - Male No U.S California - Proposition 65 -	(NSRĽ) No significance risk level (NSRL)
<ul> <li>15.3. US State regulations</li> <li>P150-32 PAG Refrigeration</li> <li>U.S California - Proposition</li> <li>Toxicity</li> <li>U.S California - Proposition</li> <li>Toxicity - Female</li> <li>U.S California - Proposition</li> <li>Toxicity - Male</li> <li>tricresyl phosphates, mixtr</li> <li>U.S California -</li> <li>Proposition 65 -</li> <li>Carcinogens List</li> <li>No</li> <li>2,6-di-tert-butyl-p-cresol (1</li> <li>U.S California -</li> <li>Proposition 65 -</li> <li>Carcinogens List</li> <li>No</li> <li>3,4-epoxycyclohexylmethy</li> <li>U.S California -</li> </ul>	ailable <b>Lubricant 150()</b> n 65 - Carcinogens List n 65 - Developmental n 65 - Reproductive n 65 - Reproductive <b>ure of isomers,</b> conc o-tri U.S California - Proposition 65 - Developmental Toxicity No <b>28-37-0)</b> U.S California - Proposition 65 - Developmental Toxicity No <b>1-3,4-epoxycyclohexylca</b> U.S California -	No         No         No         icresyl phosphate>95% (1330-78-         U.S California -         Proposition 65 -         Reproductive Toxicity -         Female         No         U.S California -         Proposition 65 -         Reproductive Toxicity -         Female         No         Image: No	U.S California - Proposition 65 - Reproductive Toxicity - Male No U.S California - Proposition 65 - Reproductive Toxicity - Male No U.S California - Proposition 65 - Reproductive Toxicity -	(NSRĽ)  No significance risk level (NSRL)  No significance risk level
<ul> <li>15.3. US State regulations</li> <li>P150-32 PAG Refrigeration</li> <li>U.S California - Proposition</li> <li>Toxicity</li> <li>U.S California - Proposition</li> <li>Toxicity - Female</li> <li>U.S California - Proposition</li> <li>Toxicity - Male</li> <li>tricresyl phosphates, mixtre</li> <li>U.S California -</li> <li>Proposition 65 -</li> <li>Carcinogens List</li> <li>No</li> <li>2,6-di-tert-butyl-p-cresol (1</li> <li>U.S California -</li> <li>Proposition 65 -</li> <li>Carcinogens List</li> <li>No</li> <li>3,4-epoxycyclohexylmethy</li> <li>U.S California -</li> <li>Proposition 65 -</li> </ul>	ailable <b>Lubricant 150()</b> n 65 - Carcinogens List n 65 - Developmental n 65 - Reproductive n 65 - Reproductive <b>ure of isomers,</b> conc o-tri U.S California - Proposition 65 - Developmental Toxicity No <b>28-37-0)</b> U.S California - Proposition 65 - Developmental Toxicity No <b>1-3,4-epoxycyclohexylca</b> U.S California - Proposition 65 -	No         No         No         icresyl phosphate>95% (1330-78-         U.S California -         Proposition 65 -         Reproductive Toxicity -         Female         No         U.S California -         Proposition 65 -         Reproductive Toxicity -         Female         No         Image: No	U.S California - Proposition 65 - Reproductive Toxicity - Male No U.S California - Proposition 65 - Reproductive Toxicity - Male No U.S California - Proposition 65 -	(NSRĽ)  No significance risk level (NSRL)  No significance risk level

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Other information	: None.
ull text of H-phrases: see section 16:	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
H302	Harmful if swallowed
IFPA health hazard	: 1 - Exposure could cause irritation but only minor residual
IFPA health hazard IFPA fire hazard	<ul> <li>: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.</li> <li>: 1 - Must be preheated before ignition can occur.</li> </ul>

SDS US (GHS HazCom 2012) - TSI

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