

# 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

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name : P46-32D PAG Refrigeration Lubricant 46 + U/V Dye

Product code : P46-32D

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Polyalkylene Glycol based lubricant with ultraviolet leak detection dye to help detect leaks in air

conditioning systems.

#### 1.3. Details of the supplier of the safety data sheet

Tire Seal, Inc. 3574 Corona Street 33461 Lake Worth, Florida - USA T 561-582-2245 - F 561-582-1499 www.supercool.ac

#### 1.4. Emergency telephone number

Emergency number : USA PHONE:1-800-373-7542, INT'L: 1-484-951-2432 DGA/AAG ENVIRONMENTAL CONTRACT: DGA4000-048

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **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 (GHS-US)

No data available

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substance

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

# 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

# SECTION 5: Firefighting measures

# 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

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#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions 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, including any incompatibilities

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

# 8.1. Control parameters

2,6-di-tert-butyl-p-cresol (128	6-di-tert-butyl-p-cresol (128-37-0)		
USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m³	

# 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.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid Appearance : Clear.

Color : Reddish Green Tint.
Odor : Characteristic.
Odor threshold : No data available
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available

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: No data available Melting point Freezing point : No data available : > 200 °C Calculated **Boiling point** 174 °C Closed Cup Flash point 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 : No data available Log Kow Viscosity, kinematic : 41.4 - 50.6 cSt @40°C 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

# **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.

Germ cell mutagenicity

Carcinogenicity

# 10.6. Hazardous decomposition products

Carbon monoxide. Carbon Dioxide.

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

# 11.1. Information on toxicological effects

Acute toxicity : 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		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitization	: Not classified		

2,6-di-tert-butyl-p-cresol (128-37-0)		
IARC group	3	

: Based on available data, the classification criteria are not met

Reproductive toxicity : Based on available data, the classification criteria are not met

Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated : Based on available data, the classification criteria are not met exposure)

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Aspiration hazard : Based on available data, the classification criteria are not met Potential Adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

ThOD

BOD (% of ThOD)

**SECTION 12: Ecological information** 

# 12.1. Toxicity

Ecology - water : Toxic to aquatic life.

2,6-di-tert-butyl-p-cresol (128-37-0)	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)		

#### 12.2. Persistence and degradability

P46-32D PAG Refrigeration Lubricant 46 + U/V Dye		
Not established.		
ricresyl phosphates, mixture of isomers, conc o-tricresyl phosphate>95% (1330-78-5)		
Readily biodegradable in water.		
2,6-di-tert-butyl-p-cresol (128-37-0)		
Not readily biodegradable in water. Biodegradable in the soil. Adsorbs into the soil. Low potential for mobility in soil. Photooxidation in the air.		
0.51 g O <sup>2</sup> /g substance		
2.27 g O²/g substance		

#### 12.3. Bioaccumulative potential

P46-32D PAG Refrigeration Lubricant 46 + U/V	6-32D PAG Refrigeration Lubricant 46 + U/V Dye		
Bioaccumulative potential	Not established.		

2.977 g O2/g substance

0.17 % ThOD

tricresyl phosphates, mixture of isomers, conc o-tricresyl 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 ≤ BCF ≤ 5000).

#### 12.4. Mobility in soil

2,6-di-tert-butyl-p-cresol (128-37-0)	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

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

Not applicable

# 14.2. UN proper shipping name

Not applicable

#### 14.3. Additional information

Other information : No supplementary information available.

**Overland transport** 

Not regulated

# Transport by sea

Not regulated

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#### Air transport

Not regulated

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

No additional information available

#### 15.2. International regulations

#### **CANADA**

<b>46-32D PAG Refrigeration Lubricant 46 +</b> U/V Dye		
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

#### **EU-Regulations**

No additional information available

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Classification according to Directive 67/548/EEC or 1999/45/EC

#### 15.2.2. National regulations

No additional information available

#### 15.3. US State regulations

P46-32D PAG Refrigeration Lubricant 46 + U/V Dye()	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No

ricresyl phosphates, mixture of isomers, conc o-tricresyl phosphate>95% (1330-78-5)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No	No	
2,6-di-tert-butyl-p-cresol (1	28-37-0)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No	No	

# **SECTION 16: Other information**

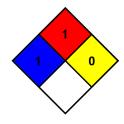
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



SDS US (GHS HazCom 2012) - TSI

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