

## 1. Identification of the substance/preparation and company/undertaking

### 1.1 Identification of the substance or preparation

**Product name** Castrol Pyroplex Red EP 2

**SDS no.** 464255

**1.2 Use of the substance/preparation** Grease  
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

### 1.3 Company/undertaking identification

**Supplier** BP Petrolleri A.Ş.  
Sarı Kanarya Sokak No:14 K2 Plaza  
34742 Kozyatağı, İstanbul  
TURKEY

Telephone: 0216 5712800  
Fax: 0216 5712950

**E-mail address** MSDSadvice@bp.com

### 1.4 Emergency telephone number

**EMERGENCY TELEPHONE NUMBER** CASTROL DIRECT 0212 473 77 37

## 2. Composition/information on ingredients

### Substance/preparation

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

Chemical name	CAS no.	%	EINECS / ELINCS.	Classification
Zinc alkyl dithiophosphate	68649-42-3	1 - 5	272-028-3	Xi; R41, R38 N; R51/53 [1]

See section 16 for the full text of the R-phrases declared above

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

Occupational exposure limits, if available, are listed in section 8.

## 3. Hazards identification

This preparation is not classified as dangerous according to Directive 1999/45/EC as amended and adapted.

### Additional hazards

Note: High Pressure Applications  
Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency.  
See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data Sheet.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

## 4. First-aid measures

**Eye contact** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin contact** Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.

**Inhalation** If inhaled, remove to fresh air. Get medical attention if symptoms appear.

**Ingestion** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.

**Notes to physician** Treatment should in general be symptomatic and directed to relieving any effects.

Conforms to the regulation on preparation and distribution of safety data sheets on hazardous materials and preparations 26.12.2008 – 27092.

<b>Substance/preparation Name</b>	Castrol Pyroplex Red EP 2	<b>Product code</b>	464255-US10	<b>Page:</b>	1/5
<b>Date of revision</b>	1 December 2009	<b>Number of Revisions</b>	1	<b>Format</b>	Turkey
<b>First issue date</b>	1 December 2009	<b>Build</b>	1.0.0	<b>(Turkey)</b>	<b>Language</b> ENGLISH ( ENGLISH )

## 5. Fire-fighting measures

### Extinguishing media

#### Suitable

In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

#### Not suitable

Do not use water jet.

### Hazardous decomposition products

Decomposition products may include the following materials:

carbon dioxide  
carbon monoxide  
sulfur oxides  
phosphorus oxides  
metal oxide/oxides

### Unusual fire/explosion hazards

This material is not explosive as defined by established regulatory criteria.

### Special fire-fighting procedures

None identified.

### Protection of fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## 6. Accidental release measures

### Personal precautions

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see section 8).

### Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Large spill

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

### Small spill

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## 7. Handling and storage

### 7.1 Handling

Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

### 7.2 Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area.

#### Not suitable

Prolonged exposure to elevated temperature.

### 7.3 Specific uses

For specific application advice see appropriate Technical Data Sheet or consult our company representative.

## 8. Exposure controls/personal protection

### 8.1 Occupational exposure limits

#### Ingredient name

No exposure limit value known.

#### ACGIH TLVs

Base oil - unspecified

#### Occupational exposure limits

#### ACGIH (United States).

STEL: 10 mg/m<sup>3</sup> 15 minute(s). Form: Mineral oil, mist  
TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Mineral oil, mist

For information and guidance, the ACGIH values are included. For further information on these please consult your supplier.

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

### 8.2 Exposure controls

#### 8.2.1 Occupational exposure controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

All chemicals should be assessed for their risks to health and appropriate control measures put in place to prevent or adequately control exposure. A hierarchy of control measures exists (e.g. elimination, substitution, general ventilation, containment, systems of work, changing the process or activity) that must be considered before use of personal protective equipment. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Conforms to the regulation on preparation and distribution of safety data sheets on hazardous materials and preparations 26.12.2008 – 27092.

**Substance/preparation Name** Castrol Pyroplex Red EP 2

**Product code** 464255-US10

**Page:** 2/5

**Date of revision** 1 December 2009

**Number of Revisions** 1

**Format** Turkey

**Language** ENGLISH

**First issue date** 1 December 2009

**Build** 1.0.0 (Turkey)

**( ENGLISH )**

## Hygiene measures

### 8.2.1.1 Respiratory protection

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.

Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure.

In case of insufficient ventilation, wear suitable respiratory equipment.

Respiratory protective equipment must be checked to ensure it fits correctly each time it is worn.

Air-filtering respirators, also called air-purifying respirators, will not be adequate under conditions of oxygen deficiency (i.e. low oxygen concentration), and would not be considered suitable where airborne concentrations of chemicals with a significant hazard are present. In these cases air-supplied breathing apparatus will be required.

Provided an air-filtering/air-purifying respirator is suitable, a filter for particulates can be used for mist or fume. Use filter type P or comparable standard. A combination filter for particles and organic gases and vapours (boiling point >65°C) may be required if vapour or abnormal odour is also present due to high product temperature. Use filter type AP or comparable standard.

### 8.2.1.2 Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves.

Recommended: nitrile gloves

Protective gloves will deteriorate over time due to physical and chemical damage. Inspect and replace gloves on a regular basis. The frequency of replacement will depend upon the circumstances of use.

### 8.2.1.3 Eye protection

Safety glasses with side shields.

### 8.2.1.4 Skin protection

Use of protective clothing is good industrial practice.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

## 8.2.2 Environmental exposure controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

All chemicals should be assessed for their risks to health and appropriate control measures put in place to prevent or adequately control exposure. A hierarchy of control measures exists (e.g. elimination, substitution, general ventilation, containment, systems of work, changing the process or activity) that must be considered before use of personal protective equipment. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

## 9. Physical and chemical properties

### 9.1 General information

#### 9.1.1 Appearance

Physical state Grease

Colour Red.

#### 9.1.2 Odour

Petroleum

### 9.2 Important health, safety and environmental information

Flash point Open cup: 218°C (424.4°F) [Cleveland.]

Relative Density 0.87

Solubility insoluble in water.

### 9.3 Other information

Not available.

## 10. Stability and reactivity

Stability The product is stable.

10.1 Conditions to avoid Avoid all possible sources of ignition (spark or flame).

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

10.2 Materials to avoid Reactive or incompatible with the following materials: oxidizing materials.

Conforms to the regulation on preparation and distribution of safety data sheets on hazardous materials and preparations 26.12.2008 – 27092.

Substance/preparation Name	Castrol Pyroplex Red EP 2	Product code	464255-US10	Page:	3/5		
Date of revision	1 December 2009	Number of Revisions	1	Format	Turkey	Language	ENGLISH
First issue date	1 December 2009	Build	1.0.0	(Turkey)	( ENGLISH )		

### 10.3 Hazardous decomposition products

Combustion products may include the following:  
carbon oxides  
sulfur oxides  
phosphorus oxides  
metal oxide/oxides

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

---

## 11 . Toxicological information

### Acute toxicity

Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis.

Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.

At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.

### Chronic toxicity

#### Chronic effects

Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

### Effects and symptoms

#### Eyes

No significant health hazards identified.

#### Skin

Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

#### Inhalation

No significant health hazards identified.

#### Ingestion

No significant health hazards identified.

---

## 12 . Ecological information

### 12.1 Ecotoxicity

#### Environmental hazards

Not classified as dangerous.

### 12.2 Mobility

Spillages may penetrate the soil causing ground water contamination.

### 12.3 Persistence/degradability

Inherently biodegradable

### 12.4 Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

### 12.5 Other ecological information

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

---

## 13 . Disposal considerations

### Disposal considerations / Waste information

The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

**Refer to all national, regional, and local regulations for disposal requirements**

---

## 14 . Transport information

Not classified as hazardous for transport (ADR/RID, ADNR, IMDG, ICAO/IATA)

---

## 15 . Regulatory information

Classification and labelling have been performed according to EU directive 1999/45/EC as amended and adapted and Regulation on classification, packaging and labelling of Hazardous materials and preparations (26.12.2008-27092).

### Label requirements

#### Risk phrases

This product is not classified according to EU legislation.

**Conforms to the regulation on preparation and distribution of safety data sheets on hazardous materials and preparations 26.12.2008 – 27092.**

<b>Substance/preparation Name</b>	Castrol Pyroplex Red EP 2	<b>Product code</b>	464255-US10	<b>Page:</b>	4/5		
<b>Date of revision</b>	1 December 2009	<b>Number of Revisions</b>	1	<b>Format</b>	Turkey	<b>Language</b>	ENGLISH
<b>First issue date</b>	1 December 2009	<b>Build</b>	1.0.0	<b>(Turkey)</b>	<b>( ENGLISH )</b>		

**Additional warning phrases**

Safety data sheet available for professional user on request.

**Other regulations**

<b>Europe inventory</b>	All components are listed or exempted.
<b>United States inventory (TSCA 8b)</b>	All components are listed or exempted.
<b>Australia inventory (AICS)</b>	Not determined.
<b>Canada inventory</b>	All components are listed or exempted.
<b>China inventory (IECSC)</b>	Not determined.
<b>Japan inventory (ENCS)</b>	At least one component is not listed.
<b>Korea inventory (KECI)</b>	Not determined.
<b>Philippines inventory (PICCS)</b>	Not determined.

**16 . Other information****Full text of R-phrases referred to in sections 2 and 3**

R41- Risk of serious damage to eyes.  
R38- Irritating to skin.  
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**History****Date of issue/ Date of revision**

01/12/2009.

**Date of previous issue**

No previous validation.

**Prepared by**

Product Stewardship

**Notice to reader**

Indicates information that has changed from previously issued version.

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

Conforms to the regulation on preparation and distribution of safety data sheets on hazardous materials and preparations 26.12.2008 – 27092.

<b>Substance/preparation Name</b>	Castrol Pyroplex Red EP 2	<b>Product code</b>	464255-US10	<b>Page:</b>	5/5
<b>Date of revision</b>	1 December 2009	<b>Number of Revisions</b>	1	<b>Format</b>	Turkey
<b>First issue date</b>	1 December 2009	<b>Build</b>	1.0.0	<b>(Turkey)</b>	<b>Language</b> ENGLISH ( ENGLISH )