



## 1. Product and company identification

<b>Product name</b>	Castrol Pyroplex Red EP 1
<b>MSDS #</b>	464254
<b>Code</b>	464254-US10
<b>Product use</b>	Grease For specific application advice see appropriate Technical Data Sheet or consult our company representative.
<b>Manufacturer</b>	BP Lubricants USA Inc. 1500 Valley Road Wayne, NJ 07470 Telephone: (973) 633-2200 Telecopier: (973) 633-7475
<b>EMERGENCY HEALTH INFORMATION:</b>	1 (800) 447-8735  Outside the US: +1 703-527-3887 (CHEMTREC)
<b>EMERGENCY SPILL INFORMATION:</b>	1 (800) 424-9300 CHEMTREC (USA)
<b>OTHER PRODUCT INFORMATION</b>	1 (866) 4 BP - MSDS (866-427-6737 Toll Free - North America) email: <a href="mailto:bpcares@bp.com">bpcares@bp.com</a>

## 2. Hazards identification

<b>Physical state</b>	Liquid. [Grease]
<b>Color</b>	Red.
<b>Emergency overview</b>	CAUTION !  MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
<b>Routes of entry</b>	Dermal contact. Eye contact. Inhalation. Ingestion.
<b>Potential health effects</b>	
<b>Eyes</b>	May cause eye irritation.
<b>Skin</b>	May cause skin irritation. Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
<b>Inhalation</b>	May cause respiratory tract irritation.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation and diarrhea.

[See toxicological information \(section 11\)](#)

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	(US)	<b>Language</b> ENGLISH. (ENGLISH)

### 3. Composition/information on ingredients

Ingredient name	CAS #	%
Base oil - highly refined	Varies	85 - 90
calcium carbonate	471-34-1	1 - 5
Zinc alkyl dithiophosphate	68649-42-3	1 - 5

### 4. First aid measures

<b>Eye contact</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
<b>Skin contact</b>	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 symptoms occur.
<b>Inhalation</b>	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
<b>Ingestion</b>	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. Get medical attention if symptoms occur.

### 5. Fire-fighting measures

<b>Flash point</b>	Open cup: 218°C (424.4°F) [Cleveland.]
<b>Fire/explosion hazards</b>	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Extinguishing media</b>	
<b>Suitable</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>Not suitable</b>	Do not use water jet.
<b>Fire-fighting procedures</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Hazardous combustion products</b>	Combustion products may include the following: phosphorus oxides metal oxide/oxides carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide) sulfur oxides (SO <sub>2</sub> , SO <sub>3</sub> etc.)
<b>Protective clothing (fire)</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

<b>Personal precautions</b>	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
<b>Environmental precautions</b>	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).
<b>Methods for cleaning up</b>	
<b>Large spill</b>	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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.

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### Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## 7. Handling and storage

<b>Handling</b>	Put on appropriate personal protective equipment (see section 8). Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
<b>Storage</b>	Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
<b>Other information</b>	Sulfur compounds in this material may decompose when heated to release hydrogen sulfide gas which may accumulate to potentially lethal concentrations in enclosed air spaces. Vapor concentrations of hydrogen sulfide above 50 ppm, or prolonged exposure at lower concentrations, may saturate human odor perceptions so that the smell of gas may not be apparent. Exposure to concentrations of hydrogen sulfide vapor above 500 ppm may cause rapid death. Do not rely on the sense of smell to detect hydrogen sulfide.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### Ingredient name

Base oil - highly refined

#### 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

##### OSHA (United States).

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

calcium carbonate

##### OSHA PEL (United States).

TWA: 5 mg/m<sup>3</sup> 8 hour(s). Issued/Revised: 6/1993 Form: Respirable fraction

TWA: 15 mg/m<sup>3</sup> 8 hour(s). Issued/Revised: 6/1993 Form: Total dust

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

### Some states may enforce more stringent exposure limits.

#### Control Measures

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

#### Personal protection

**Eyes** Avoid contact with eyes. Safety glasses with side shields or chemical goggles.

**Skin and body** Avoid contact with skin and clothing. Wear suitable protective clothing.

**Respiratory** Use adequate ventilation. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable.

**Hands** The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Consult your supervisor or S.O.P. for special handling instructions.

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## 9. Physical and chemical properties

<b>Physical state</b>	Grease
<b>Color</b>	Red.
<b>Odor</b>	Petroleum
<b>Flash point</b>	Open cup: 218°C (424.4°F) [Cleveland.]
<b>Specific gravity</b>	0.87
<b>Solubility</b>	insoluble in water.

## 10. Stability and reactivity

<b>Stability and reactivity</b>	The product is stable.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	Avoid all possible sources of ignition (spark or flame).
<b>Incompatibility with various substances</b>	Reactive or incompatible with the following materials: oxidizing materials.
<b>Hazardous decomposition products</b>	This product may release hydrogen sulfide (H <sub>2</sub> S) if it is heated to high temperatures or if it is in contact with acids.
<b>Hazardous polymerization</b>	Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11. Toxicological information

<b>Other information</b>	Contains low concentration of zinc alkyl dithiophosphate (ZDDP). Concentration is not expected to cause eye or skin irritation.
<b>Potential chronic health effects</b>	
<b>Carcinogenicity</b>	No known significant effects or critical hazards.

## 12. Ecological information

### Ecotoxicity

No testing has been performed by the manufacturer.

## 13. Disposal considerations

<b>Waste information</b>	The generation of waste should be avoided or minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.
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**NOTE: The generator of waste has the responsibility for proper waste identification (based on characteristic(s) or listing), transportation and disposal**

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## 14. Transport information

Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO)

## 15. Regulatory information

### U.S. Federal Regulations

#### United States inventory (TSCA 8b)

All components are listed or exempted.

**SARA 302/304/311/312 extremely hazardous substances:** No products were found.

**SARA 302/304 emergency planning and notification:** No products were found.

**SARA 302/304/311/312 hazardous chemicals:** calcium carbonate

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:** Castrol Pyroplex Red EP 1: Immediate (acute) health hazard

### SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	Zinc alkyl dithiophosphate	68649-42-3	1.2615
Supplier notification	Zinc alkyl dithiophosphate	68649-42-3	1.2615
CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):	CERCLA: Hazardous substances.: xylene: 100 lbs. (45.4 kg); Ethylbenzene: 1000 lbs. (454 kg); Zinc alkyl dithiophosphate: 1 lb. (0.454 kg); Cadmium: 10 lbs. (4.54 kg); lead: 10 lbs. (4.54 kg);		

### State regulations

#### Massachusetts Substances

None of the components are listed.

#### New Jersey Hazardous Substances

The following components are listed: ZINC compounds

#### Pennsylvania RTK Hazardous Substances

The following components are listed: ZINC COMPOUNDS

#### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer. Ethylbenzene

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. lead; Cadmium

### Inventories

#### Canada inventory

All components are listed or exempted.

#### Europe inventory

All components are listed or exempted.

#### Australia inventory (AICS)

Not determined.

#### China inventory (IECSC)

Not determined.

#### Japan inventory (ENCS)

At least one component is not listed.

#### Korea inventory (KECI)

Not determined.

#### Philippines inventory (PICCS)

Not determined.

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## 16. Other information

### Label requirements

CAUTION !

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

### HMIS® Rating :

Health 1  
Flammability 1  
Physical Hazard 0  
Personal protection X

National Fire Protection Association (U.S.A.)



### History

#### Date of issue

07/06/2009.

#### Date of previous issue

09/13/2006.

#### Prepared by

Product Stewardship

### Notice to reader

*NOTICE : This Material Safety Data Sheet is based upon data considered to be accurate at the time of its preparation. Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. We are not responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices or from hazards inherent in the nature of the product.*

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