# **Material Safety Data Sheet**



# 1. Product and company identification

Product name Castrol Pyroplex Blue 0

MSDS # 460700

Code 460700-US06

**Product use**Grease for industrial applications.

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

representative.

Manufacturer BP Lubricants USA Inc.

1500 Valley Road Wayne, NJ 07470

Telephone: (973) 633-2200 Telecopier: (973) 633-7475

**EMERGENCY HEALTH** 

**INFORMATION:** 

1 (800) 447-8735

Outside the US: +1 703-527-3887 (CHEMTREC)

EMERGENCY SPILL INFORMATION:

1 (800) 424-9300 CHEMTREC (USA)

**OTHER PRODUCT** 

1 (866) 4 BP - MSDS

**INFORMATION** 

(866-427-6737 Toll Free - North America)

email: bpcares@bp.com

#### 2. Hazards identification

Physical state Liquid. [Grease]

Color Blue.

Emergency overview WARNING!

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.

**Routes of entry** Dermal contact. Eye contact. Inhalation. Ingestion.

Potential health effects

Eyes May cause eye irritation.

**Skin** May cause skin irritation. Prolonged or repeated contact can defat the skin and lead to irritation

and/or dermatitis.

**Inhalation** May cause respiratory tract irritation.

Ingestion Ingestion may cause gastrointestinal irritation and diarrhea.

See toxicological information (section 11)

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### 3. Composition/information on ingredients

Ingredient nameCAS #%Base oil - highly refinedMixture80 - 95Calcium carbonate (limestone)1317-65-31 - 5

#### 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 symptoms occur.

**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

symptoms occur.

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

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. Get medical attention if symptoms occur.

Notes to physician Note: High Pressure Applications

Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue

becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis.

Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along

tissue planes.

### 5. Fire-fighting measures

Flash point Open cup: 220°C (428°F)

Fire/explosion hazards

Extinguishing media

In a fire or if heated, a pressure increase will occur and the container may burst.

Not suitable Do not use water jet.

**Fire-fighting procedures** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Use an extinguishing agent suitable for the surrounding fire.

No action shall be taken involving any personal risk or without suitable training.

**Hazardous combustion** 

products

Suitable

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.) nitrogen oxides (NO, NO<sub>2</sub> etc.)

Protective clothing (fire) 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

Personal precautions 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).

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).

Methods for cleaning up

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#### Large spill

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.

#### **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

**Handling** 

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.

**Storage** 

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.

Other information

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**

occupational exposure innite

Ingredient name Occupational exposure limits

Base oil - highly refined ACGIH (United States).

STEL: 10 mg/m³ 15 minute(s). Form: Oil mist, mineral TWA: 5 mg/m³ 8 hour(s). Form: Oil mist, mineral

OSHA (United States).

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

Calcium carbonate (limestone) ACGIH TLV (United States, 2002).

TWA: 10 mg/m<sup>3</sup> 8 hour(s).

NIOSH REL (United States, 12/2001).

TWA: 5 mg/m³ 10 hour(s). Form: Respirable fraction

TWA: 10 mg/m³ 10 hour(s). Form: Total OSHA PEL (United States, 11/2006).

TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction TWA: 15 mg/m³ 8 hour(s). 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.

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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.

# 9. Physical and chemical properties

Physical state Grease
Color Blue.
Odor Bland.

Flash point Open cup: 220°C (428°F)

Specific gravity 0.87

Vapor pressure <0.013 kPa (<0.1 mm Hg)

**Solubility** Insoluble in water.

### 10. Stability and reactivity

Stability and reactivity The product is stable.

**Conditions to avoid** Keep away from heat, sparks and flame.

Incompatibility with various substances

Reactive or incompatible with the following materials: oxidizing materials.

**Hazardous decomposition** 

products

Hydrogen Sulfide (H2S)

Hazardous polymerization Under normal conditions of storage and use, hazardous polymerization will not occur.

# 11. Toxicological information

Other information

Potential chronic health effects

Carcinogenicity No known significant effects or critical hazards.

# 12. Ecological information

No testing has been performed by the manufacturer.

# 13. Disposal considerations

Waste information 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.

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 (limestone)

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Castrol

Pyroplex Blue 0: Immediate (acute) health hazard

**SARA 313** 

Product name CAS number Concentration

Form R - Reporting requirements

2-ethylhexyl zinc dithiophosphate 4259-15-8 1

Supplier notification 2-ethylhexyl zinc dithiophosphate

4259-15-8 1

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4): CERCLA: Hazardous substances.: 2-ethylhexyl zinc dithiophosphate; zinc sulfonate;

State regulations

Massachusetts Substances: The following components are listed: CALCIUM CARBONATE

Substances

New Jersey Hazardous Substances: The following components are listed: ZINC compounds

New Jersey Hazardous Substances

Pennsylvania RTK Hazardous Substances: The following components are listed:

Pennsylvania RTK Hazardous Substances

California Prop. 65

LIMESTONE;ZINC COMPOUNDS

**WARNING:** This product contains a chemical known to the State of California to cause cancer. Silica, crystalline - guartz

**Inventories** Canada inventory: All components are listed or exempted.

Europe inventory: All components are listed or exempted.

Australia inventory (AICS): At least one component is not listed.

China inventory (IECSC): At least one component is not listed.

Japan inventory (ENCS): At least one component is not listed.

**Korea inventory (KECI):** At least one component is not listed.

Philippines inventory (PICCS): At least one component is not listed.

#### 16. Other information

Label requirements WARNING!

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

HMIS® Rating: Health 1 National Fire

Flammability 1 Protection
Physical 0 Association (U.S.A.)

Hazard Personal X protection

#### **History**

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Date of previous issue 11/22/2005.

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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