

# Material Safety Data Sheet



## 1. Chemical product and company identification

**Product name** CASTROL UNIVERSAL TRACTOR FLUID  
**MSDS #** 0000002628  
**Code** 0000002628  
**Product use** Hydraulic fluid / Transmission fluid  
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 INFORMATION** 1 (866) 4 BP - MSDS  
(866-427-6737 Toll Free - North America)  
email: bpcares@bp.com

## 2. Composition/information on ingredients

Ingredient name	CAS #	% by weight
Base oil - highly refined	64741-88-4	85 - 90
Base oil - highly refined	proprietary	5 - 10
Zinc alkyl dithiophosphate	68649-42-3	1 - 5

## 3. Hazards identification

**Physical state** Liquid.  
**Color** Amber.  
**Emergency overview** WARNING!  
CAUSES SKIN IRRITATION.  
MAY CAUSE EYE IRRITATION.  
MAY CAUSE RESPIRATORY TRACT IRRITATION.  
Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.  
**Routes of entry** Dermal contact. Eye contact. Inhalation. Ingestion.  
**Potential health effects**  
**Eyes** May cause eye irritation.  
**Skin** Causes skin irritation. Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. High pressure skin injections are serious medical emergencies. Injury will not appear serious at first; within a few hours, tissue will become swollen, discolored and extremely painful.

<b>Inhalation</b>	May cause respiratory tract irritation.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation and diarrhea.
<b>Medical conditions aggravated by over-exposure</b>	None identified.
<b>See toxicological information (section 11)</b>	

## 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 irritation occurs.
<b>Skin contact</b>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Accidental high pressure injection through the skin requires immediate medical attention.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<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 large quantities of this material are swallowed, call a physician immediately.

## 5. Fire-fighting measures

<b>Flammability of the product</b>	May be combustible at high temperature.
<b>Flash point</b>	215 °C (Open cup)
<b>Products of combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide), sulfur oxides (SO <sub>2</sub> , SO <sub>3</sub> etc.), oxides of phosphorus, other hazardous substances.
<b>Unusual fire/explosion hazards</b>	This material is not explosive as defined by established regulatory criteria.
<b>Fire-fighting media and instructions</b>	In case of fire, use water fog, foam, dry chemicals, or carbon dioxide. Do not use water jet.
<b>Protective clothing (fire)</b>	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## 6. Accidental release measures

<b>Personal precautions</b>	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (See Section: "Exposure controls/personal protection"). Follow all fire fighting procedures (See Section: "Fire-fighting measures").
<b>Environmental precautions and clean-up methods</b>	If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Avoid contact of spilled material with soil and prevent runoff entering surface waterways. See Section 13 for Waste Disposal Information.
<b>Personal protection in case of a large spill</b>	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

## 7. Handling and storage

<b>Handling</b>	Avoid contact with skin and clothing. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Use only with adequate ventilation. Avoid breathing vapor or mist. Wash thoroughly after handling.
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area. Empty containers may contain harmful, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards.

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## 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: Oil mist, mineral

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

##### OSHA (United States).

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

Base oil - highly refined

##### ACGIH (United States).

STEL: 10 mg/m<sup>3</sup> 15 minute(s). Form: Oil mist, mineral

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##### OSHA (United States).

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

Zinc alkyl dithiophosphate

None assigned.

#### Control Measures

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the work-station location.

#### 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.

#### Personal protection

##### Eyes

Avoid contact with eyes. Chemical splash goggles.

##### Skin and body

Avoid contact with skin and clothing. Wear suitable protective clothing.

##### Respiratory

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

##### Hands

Wear suitable gloves.

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

Consult local authorities for acceptable exposure limits.

## 9. Physical and chemical properties

#### Physical state

Liquid.

#### Color

Amber.

#### Heat of combustion

Not available.

#### Pour Point

-37 °C

#### Specific gravity

0.8856

#### Solubility

Insoluble in cold water.

#### Viscosity

Kinematic: 55.89 mm<sup>2</sup>/s (55.89 cSt) at 40°C

Kinematic: 9.39 mm<sup>2</sup>/s (9.39 cSt) at 100°C

SUS: 284.9 SUS at 37.8°C

#### Viscosity Index

151

## 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 and acids.

#### Hazardous decomposition products

Products of combustion: carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide), sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub> etc.), oxides of phosphorus, other hazardous substances.

#### Hazardous polymerization

Will not occur.

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## 11. Toxicological information

### Chronic toxicity

<b>Carcinogenic effects</b>	No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).
<b>Mutagenic effects</b>	No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.
<b>Reproductive effects</b>	No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a reproductive toxin.
<b>Teratogenic effects</b>	No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

## 12. Ecological information

**Ecotoxicity** No testing has been performed by the manufacturer.

## 13. Disposal considerations

**Waste information** Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.

**Consult your local or regional authorities.**

## 14. Transport information

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

## 15. Regulatory information

**U.S. Federal regulations** US INVENTORY (TSCA): In compliance.

TSCA 12(b) one-time export notification:: nonane

TSCA 12(b) annual export notification: Lead

This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

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

UNIVERSAL TRACTOR FLUID: Immediate (Acute) Health Hazard

### SARA 313

	<b>Product name</b>	<b>CAS number</b>	<b>Concentration</b>
<b>Form R - Reporting requirements</b>	Zinc alkyl dithiophosphate	68649-42-3	1.208 - 1.806
<b>Supplier notification</b>	Zinc alkyl dithiophosphate	68649-42-3	1.208 - 1.806

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):: Zinc alkyl dithiophosphate; Arsenic: 1 lbs. (0.4536 kg); Cadmium: 10 lbs. (4.536 kg); Lead: 10 lbs. (4.536 kg);

### State regulations

New Jersey: Zinc alkyl dithiophosphate

Pennsylvania RTK: Zinc alkyl dithiophosphate (environmental hazard, generic environmental hazard)

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

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

## Inventories

AUSTRALIAN INVENTORY (AICS): In compliance.

CANADA INVENTORY (DSL): In compliance.

CHINA INVENTORY (IECS): In compliance.

EC INVENTORY (EINECS/ELINCS): In compliance.

JAPAN INVENTORY (ENCS): In compliance.

KOREA INVENTORY (ECL): In compliance.

PHILIPPINE INVENTORY (PICCS): In compliance.

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## 16. Other information

### Label requirements

WARNING!

CAUSES SKIN IRRITATION.  
MAY CAUSE EYE IRRITATION.  
MAY CAUSE RESPIRATORY TRACT IRRITATION.

### HMIS® Rating :

**Health**            2 -  
**Flammability**    1  
**Physical**           0  
**Hazard**  
**Personal**         X  
**protection**

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



### History

**Date of issue**                    04/26/2006.

**Date of previous issue**        04/26/2006.

**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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