Material Safety Data Sheet



1. Chemical product and company identification

Product name Castrol Tection Extra 15W-40 (CJ-4)

MSDS # 465297

Code 465297-US03

Product use Engine oils.

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 1 (800) 447-8735

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

EMERGENCY SPILL 1 (800) 424-9300 CHEMTREC (USA)

INFORMATION:

OTHER PRODUCT 1 (866) 4 BP - MSDS

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

email: bpcares@bp.com

2. Composition/information on ingredients

Ingredient name CAS # %

 Base oil - highly refined
 64742-54-7
 90 - 95

 Zinc alkyl dithiophosphate
 68649-42-3
 1 - 5

3. Hazards identification

Physical state Liquid.

Color Clear.

Emergency overview CAUTION!

MAY CAUSE EYE IRRITATION.
MAY CAUSE SKIN 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, cracking and/or dermatitis.

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.

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None identified.

See toxicological Information (section 11).

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. Thoroughly clean shoes before reuse. Get medical attention if

irritation develops.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, Inhalation

give oxygen. Get medical attention.

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by Ingestion

mouth to an unconscious person. Get medical attention if symptoms appear. If large quantities of

this material are swallowed, call a physician immediately.

5. Fire-fighting measures

Flammability of the product

May be combustible at high temperature.

Flash point

232 °C (Open cup) Cleveland.

Products of combustion These products are

> carbon oxides nitrogen oxides sulfur oxides phosphorus oxides metal oxide/oxides

Unusual fire/explosion hazards

Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.

Fire-fighting media and

instructions

In case of fire, use water fog, foam, dry chemicals, or carbon dioxide. Do not use water jet.

Protective clothing (fire)

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

6. Accidental release measures

Personal precautions

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").

Environmental precautions and clean-up methods

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.

Personal protection in case of a large spill

Chemical splash goggles. Chemical resistant protective suit. Boots. Chemical resistant gloves. Vapor respirator or a self-contained breathing apparatus. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

CAUTION: The protection provided by air-purifying respirators is limited. Use a positive pressure air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are not known, or if concentrations exceed the protection limits of air-purifying respirator.

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7. Handling and storage

Handling 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.

Storage 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.

8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name Occupational exposure limits

Base oil - highly refined ACGIH (United States).

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

OSHA (United States).

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

Zinc alkyl dithiophosphate None assigned.

Some states may enforce more stringent exposure limits.

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 clothing and footwear that cannot be penetrated by chemicals or oil.

Recommended: Nitrile gloves.

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 directions

Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties

Physical state Liquid.
Color Clear.

Heat of combustion Not available.

Pour Point -42 °C

Solubility insoluble in water.

Viscosity Kinematic: 114 mm²/s (114 cSt) at 40°C

Viscosity Index 136

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10. Stability and reactivity

Stability and reactivity The product is stable.

Conditions to avoid Not available.

Incompatibility with various substances

Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition

products

Products of combustion: carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide), sulfur

oxides (SO₂, SO₃ etc.) phosphorus oxides and metal oxide/oxides .

Hazardous polymerization Will not occur.

11. Toxicological information

Chronic toxicity

Carcinogenic effects

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).

Mutagenic effects

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.

Reproductive effects

This product contains low levels of para-dodecylphenol. Para-dodecylphenol given orally to rats repeatedly at high dose levels caused adverse reproductive effects. The relevance of these findings to humans is uncertain. These effects are not expected to occur with the use of this product as intended when good personal hygiene is practiced.

Teratogenic effects

This product contains low levels of para-dodecylphenol. Para-dodecylphenol given orally to rats repeatedly at high dose levels caused teratogenic effects (cleft palate and skeletal malformations). The relevance of these findings to humans is uncertain. These effects are not expected to occur

with the use of this product as intended when good personal hygiene is practiced.

12. Ecological information

Ecotoxicity

No testing has been performed by the manufacturer.

Persistence/degradability Inherently biodegradable

Mobility Spillages may penetrate the soil causing ground water contamination.

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

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

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.

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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.

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

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 Tection

Extra 15W-40 (CJ-4): Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

SARA 313

Product name CAS number Concentration

Form R - Reporting requirements

Supplier notification

68649-42-3 0.926 - 1.8335 Zinc alkyl dithiophosphate

68649-42-3

0.926 - 1.8335

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):: Zinc alkyl

dithiophosphate:

Zinc alkyl dithiophosphate

State regulations

New Jersey

Substances

Massachusetts Massachusetts RTK: None of the components are listed. **Substances**

Hazardous dithiophosphate

Substances Pennsylvania RTK **Hazardous**

Pennsylvania RTK: The following components are listed: Zinc alkyl dithiophosphate

New Jersey Hazardous Substances: The following components are listed: Zinc alkyl

California Prop 65: No products were found

Inventories Canada inventory: All components are listed or exempted.

Europe inventory: At least one component is not listed in EINECS but all such components are

listed in ELINCS.

Please contact your supplier for information on the inventory status of this material.

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): All components are listed or exempted.

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

16. Other information

Label requirements CAUTION!

> MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

HMIS® Rating: Health **National Fire**

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

Personal X

protection

Fire hazard Instability Health Specific hazard

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History

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Date of previous issue 03/09/2007.

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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