Material Safety Data Sheet



1. Product and company identification

Product name

Castrol Pyroplex Red EP 2

MSDS#

464255

Code

464255-US10

Product use

Grease

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. Hazards identification

Physical state

Liquid. [Grease]

Color

Red.

Emergency overview

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.

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)

Product name Castrol Pyroplex Red EP 2

Product code

464255-US10

Page: 1/6

Version 2

Date of issue 07/06/2009.

Format US

Language ENGLISH.

(US)

3. Composition/information on ingredients

 Ingredient name
 CAS #
 %

 Base oil - highly refined calcium carbonate
 Varies
 85 - 90

 calcium carbonate
 471-34-1
 1 - 5

 Zinc alkyl dithiophosphate
 68649-42-3
 1 - 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.

5. Fire-fighting measures

Flash point

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

Fire/explosion hazards

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

Extinguishing media

Suitable

Use an extinguishing agent suitable for the surrounding fire.

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.

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

Hazardous combustion

products

Combustion products may include the following:

phosphorus oxides

metal oxide/oxides

carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

sulfur oxides (SO₂, SO₃ 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

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.

Product nameCastrol Pyroplex Red EP 2Product code464255-US10Page: 2/6Version 2Date of issue07/06/2009.Format USLanguageENGLISH.(US)(ENGLISH)

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

Ingredient name

Occupational exposure limits

Base oil - highly refined

ACGIH (United States).

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

OSHA (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mineral oil, mist

calcium carbonate

OSHA PEL (United States).

TWA: 5 mg/m³ 8 hour(s). Issued/Revised: 6/1993 Form: Respirable fraction TWA: 15 mg/m³ 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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464255-US10

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Version 2

Date of issue 07/06/2009.

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Language ENGLISH.

(US)

9. Physical and chemical properties

Physical state

Grease

Color

Red.

Odor

Petroleum

Flash point

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

Specific gravity

0.87

Solubility

insoluble in water.

10. Stability and reactivity

Stability and reactivity

The product is stable.

Possibility of hazardous

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

reactions

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

Incompatibility with various substances

Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition

products

This product may release hydrogen sulfide (H2S) if it is heated to high temperatures or if it is in

contact with acids.

Hazardous polymerization

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

11. Toxicological information

Other information

Contains low concentration of zinc alkyl dithiophosphate (ZDDP). Concentration is not expected to

cause eye or skin irritation.

Potential chronic health effects

Carcinogenicity

No known significant effects or critical hazards.

12. Ecological information

Ecotoxicity

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

Product name Castrol Pyroplex Red EP 2

Product code

464255-US10

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Date of issue 07/06/2009.

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Language ENGLISH.

(US)

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 2: Immediate (acute) health hazard

SARA 313

Concentration Product name CAS number

Form R - Reporting

Zinc alkyl dithiophosphate

68649-42-3 1.2615

requirements

Zinc alkyl dithiophosphate

68649-42-3

1.2615

CERCLA Sections 102a/103 Hazardous Substances (40 CFR

Supplier notification

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);

Part 302.4):

State regulations

None of the components are listed.

Massachusetts Substances

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

Not determined.

(PICCS)

Product name Castrol Pyroplex Red EP 2

Product code

464255-US10

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Date of issue 07/06/2009.

Format US

Language ENGLISH.

(US)

16. Other information

Label requirements

CAUTION!

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

~ 287

HMIS® Rating:

Health

National Fire

Flammability 1

Х

Protection

Physical Hazard Association (U.S.A.)

Health Fire hazard
Instability
Specific hazard

1500

Personal protection

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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Product code

464255-US10

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Version 2

Date of issue 07/06/2009.

Format US

Language ENGLISH.

(US)

Material Safety Data Sheet



1. Product and company identification

Product name

Zastrol Fifth Wheel Grease

MSDS#

464223

Historic MSDS #:

Ø00001609

Code

\$64223-US49

Product use

Ørease

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

representative.

Vanufacturer

BP Lubricants USA Inc. 1500 Valley Road Wayne, NJ 07470

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

EMERGENCY HEALTH

NFORMATION:

1 (800) 447-8735

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

EMERGENCY SPILL

NFORMATION:

1 (800) 424-9300 CHEMTREC (USA)

OTHER PRODUCT

NFORMATION

1 (866) 4 BP - MSDS

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

email: bpcares@bp.com

2. Hazards identification

Physical state

Grease

Color

Black.

Emergency overview

EAUTION!

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.

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

Version 2

Ingestion may cause gastrointestinal irritation and diarrhea.

See toxicological information (Section 11)

Product name Zastrol Fifth Wheel Grease

Product code

#64223-US49

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Format US

Language ENGLISH

// 101

(CNOLIGH)

3. Composition/information on ingredients

ngredient name	en e	4.4. 73 .	CAS#	°/ ₀	
ase oil - highly refined ⊃etroleum resins			Varies 64742-16-1	85 - 90 45 - 50	
nolybdenum sulfide			1317-33-5	5 - 10	

First aid measures

in case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get Eye contact

medical attention if symptoms occur.

Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. **Skin contact**

Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if

symptoms occur.

Finhaled, remove to fresh air. Get medical attention if symptoms occur. nhalation

To not induce vomiting unless directed to do so by medical personnel. Never give anything by ngestion

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

Øpen cup: 350°C (662°F) [Cleveland.] Flash point

in a fire or if heated, a pressure increase will occur and the container may burst. Fire/explosion hazards

Extinguishing media

Dse an extinguishing agent suitable for the surrounding fire. Suitable

Not suitable Do not use water jet.

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

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

Hazardous combustion

products

Combustion products may include the following:

metal oxide/oxides

carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

sulfur oxides (SO2, SO3 etc.)

Fire-fighters should wear appropriate protective equipment and self-contained breathing Protective clothing (fire)

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Accidental release measures

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

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).

Woid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Environmental

Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

<u>Methods for cleaning up</u>

precautions

Version 2

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Large spill

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.

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-Small spill soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an

appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Product name Zastrol Fifth Wheel Grease

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#64223-US49

Date of issue 05/31/2012.

7. Handling and storage

Handling

Fut 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 wellventilated 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.

8. Exposure controls/personal protection

Occupational exposure limits

ngredient name

Occupational exposure limits

Sase oil - highly refined

ACGIH (United States).

TWA: 5 mg/m3 8 hours. Form: Mineral oil, mist

OSHA (United States).

TWA: 5 mg/m3 8 hours. Form: Mineral oil, mist

²etroleum resins

ACGIH (United States).

TWA: 5 mg/m3 8 hours. Form: Oil mist, mineral

OSHA (United States).

TWA: 5 mg/m3 8 hours. Form: Oil mist, mineral

nolybdenum sulfide

ACGIH TLV (United States).

TWA: 10 mg/m³, (as Mo) 8 hours. Issued/Revised: 2/2001 Form: Inhalable fraction TWA: 3 mg/m³, (as Mo) 8 hours. Issued/Revised: 2/2001 Form: Respirable fraction

OSHA PEL (United States).

TWA: 15 mg/m³, (as Mo) 8 hours. 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 Just 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

Is e 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

Woold contact with eyes. Safety glasses with side shields or chemical goggles.

Skin and body

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

Respiratory

Version 2

Is a 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 Standard Operating Procedure (S.O.P) for special handling instructions.

Product name @astrol Fifth Wheel Grease

Date of issue 05/31/2012.

Product code

\$64223-US49

Page: 3/6

Format US

Language ENGLISH

(ENCLICH)

9. Physical and chemical properties

Physical state

Grease

Color

Black.

Flash point

Open cup: 350°C (662°F) [Cleveland.]

Specific gravity

Solubility

insoluble in water.

10. Stability and reactivity

Stability and reactivity

The product is stable.

Possibility of hazardous

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

reactions

Conditions to avoid

Avoid all possible sources of ignition (spark or flame).

ncompatibility with

Reactive or incompatible with the following materials: oxidizing materials.

various substances

Avoid strong oxidizers.

Hazardous decomposition products

Inder normal conditions of storage and use, hazardous decomposition products should not be

produced.

Hazardous polymerization

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

11. Toxicological information

Potential chronic health effects

Carcinogenicity

No known significant effects or critical hazards.

12. Ecological information

Ecotoxicity

No testing has been performed by the manufacturer.

Persistence/degradability

No evidence of biodegradability.

Viobility

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 nformation

pills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer

could also be impaired.

13. Disposal considerations

Naste information

Version 2

The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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), ransportation and disposal

Product name Castrol Fifth Wheel Grease

Date of issue 05/31/2012.

#64223-US49 Product code

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Format US

Language ENGLISH

No.

(ENCLICE)

14. Transport information

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

15. Regulatory information

5. Federal Regulations

United States inventory (TSCA 8b)

Mi 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: No products were found.

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

Wheel Grease: Immediate (acute) health hazard

SARA 313

Form R - Reporting requirements

This product does not contain any hazardous ingredients at or above regulated thresholds.

Supplier notification

This product does not contain any hazardous ingredients at or above regulated thresholds.

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

ZERCLA: Hazardous substances.: No products were found.

State regulations

Massachusetts **Substances**

The following components are listed: MOLYBDENUM DISULFIDE

New Jersey Hazardous Substances

The following components are listed: MINERAL OIL (UNTREATED and MILDLY TREATED)

Pennsylvania RTK **Hazardous Substances**

None of the components are listed.

California Prop. 65

California Prop 65: No products were found

Other regulations

Canada inventory

All components are listed or exempted.

REACH Status

For the REACH status of this product please consult your company contact, as identified in

Section 1.

Australia inventory (AICS)

All components are listed or exempted.

China inventory (IECSC)

All components are listed or exempted.

Japan inventory (ENCS)

All components are listed or exempted.

Korea inventory (KECI)

All components are listed or exempted.

Philippines inventory

(PICCS)

Not determined.

16. Other information

_abel requirements

CAUTION!

Personal protection

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

-IMIS® Rating:

1 Health Flammability M **National Fire**

Protection

Physical Hazard

X

Association (U.S.A.)

Health 🐰

Fire hazard Instability Specific hazard

Product name Castrol Fifth Wheel Grease

Product code

#64223-US49

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Version 2

Date of issue 05/31/2012.

Format US

Language ENGLISH

(ENIONICUS)

יוטגעד אוד

Date of issue

05/31/2012.

Date of previous issue

09/23/2008.

Prepared by

Product Stewardship

Indicates information that has changed from previously issued version.

Notice to reader

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 BP Group.

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. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

Material Safety Data Sheet



1. Product and company identification

Product name

Castrol Axle Limited Slip 80W-90

MSDS#

467620

Code

\$67620-CA01 US06 US13 US31

Product use

Manual 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

1 (866) 4 BP - MSDS

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

email: bpcares@bp.com

2. Hazards identification

Physical state

Liquid.

Emergency overview

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.

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)

3. Composition/information on ingredients

ngredient name	CAS #	%
Tase oil - highly refined Defin sulfide Base oil - highly refined mines, C12-14-alkyl, reaction products with hexanol phosphorus oxide p2o5), phosphorus sulfide (p2s5) and propylene oxide	Varies 68937-96-2 72623-86-0 91745-46-9	85 - 90 1 - 5 1 - 5 1 - 5

Product name Castrol Axle Limited Slip 80W-90

Product code

#67620-CA01 US06 US13 US31 Page: 1/5

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(US)

4. First aid measures

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

~ 265.5

attention if symptoms occur.

Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Skin contact

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.

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

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

Flash point Closed cup: >180°C (>356°F) [Pensky-Martens.]

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

Extinguishing media

Use an extinguishing agent suitable for the surrounding fire. Suitable

Not suitable Do not use water jet.

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

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

Hazardous combustion

products

Combustion products may include the following:

carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

sulfur oxides (SO2, SO3 etc.)

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus Protective clothing (fire)

(SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary Personal precautions

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

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent Large spill

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.

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-Small spill

soluble. Alternatively, or if water-insoluble, 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

Put on appropriate personal protective equipment (see Section 8). Workers should wash hands Handling

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.

Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-Storage 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.

Product name Castrol Axle Limited Slip 80W-90

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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

Occupational exposure limits

Base oil - highly refined

ACGIH (United States).

TWA: 5 mg/m3 8 hour(s). Form: Mineral oil, mist

OSHA (United States).

TWA: 5 mg/m3 8 hour(s). Form: Mineral oil, mist

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

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 Standard Operating Procedure (S.O.P) for special handling instructions.

9. Physical and chemical properties

Physical state

Liquid.

Flash point

Closed cup: >180°C (>356°F) [Pensky-Martens.]

Density

885 kg/m3 (0.885 g/cm3) at 15.6°C

Viscosity

Kinematic: 13.7 to 15 mm²/s (13.7 to 15 cSt) at 100°C

Solubility

insoluble in water.

10. Stability and reactivity

Stability and reactivity

The product is stable.

Possibility of hazardous reactions

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

Conditions to avoid

Avoid all possible sources of ignition (spark or flame).

Incompatibility with various substances

Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition

This product may release hydrogen sulfide (H₂S) if it is heated to high temperatures.

products

Product name Castrol Axle Limited Slip 80W-90

Product code

167620-CA01 US06 US13 US31 Page: 3/5

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11. Toxicological information

Other information

Contains low concentration of Olefinsulfide and phosphoric acid ester amine salt. Based on animal studies at high concentration may cause allergic skin reactions with repeated exposure.

Potential chronic health effects

Carcinogenicity

No known significant effects or critical hazards.

12. Ecological information

Ecotoxicity

No testing has been performed by the manufacturer.

13. Disposal considerations

Waste information

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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

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: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Castrol Hypoy C 80W-90 (Toronto-Baltimore-Richmond-Delta) Parent: Immediate (acute) health hazard

SARA 313

Form R - Reporting requirements

This product does not contain any hazardous ingredients at or above regulated thresholds.

Supplier notification This product does not contain any hazardous ingredients at or above regulated thresholds.

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4): CERCLA: Hazardous substances.: Cadmium (Non-pyrophoric): 10 lbs. (4.54 kg); lead: 10 lbs. (4.54 kg); Arsenic: 1 lb. (0.454 kg); Ethyl acrylate: 1000 lbs. (454 kg); p-xylene: 100 lbs. (45.4 kg);

State regulations

Massachusetts Substances None of the components are listed.

New Jersey Hazardous Substances None of the components are listed.

Product name Castrol Axle Limited Slip 80W-90

Product code

757620-CA01 US06 US13 US31 Page: 4/5

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Pennsylvania RTK **Hazardous Substances** None of the components are listed.

California Prop. 65

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

Ethyl acrylate; Arsenic

WARNING: This product contains a chemical known to the State of California to cause cancer and

birth defects or other reproductive harm.

Cadmium (Non-pyrophoric); lead

Other regulations

Canada inventory

All components are listed or exempted.

REACH Status

For the REACH status of this product please consult your company contact, as identified in Section

Australia inventory (AICS)

All components are listed or exempted.

China inventory (IECSC)

All components are listed or exempted.

Japan inventory (ENCS)

All components are listed or exempted. All components are listed or exempted.

Korea inventory (KECI)

Philippines inventory

(PICCS)

All components are listed or exempted.

16. Other information

Label requirements

CAUTION!

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

HMIS® Rating:

Health

Hazard Personal **National Fire**

Flammability **Physical**

χ

Protection

Association (U.S.A.)

Health

Fire hazard Instability Specific hazard

History

Date of issue

09/30/2011.

protection

Date of previous issue

08/11/2011.

Prepared by

Product Stewardship

Indicates information that has changed from previously issued version.

Notice to reader

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 BP Group.

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. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

Product name Castrol Axle Limited Slip 80W-90

Product code

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Format US

Language ENGLISH

(US)

Material Safety Data Sheet



1. Product and company identification

Product name

Castrol Syntrax Limited Slip 75W-90

MSDS#

467619

Code

467619-US65

Product use

Gear lubricant

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. Hazards identification

Physical state

Liquid.

Color

Light

Emergency overview

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.

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)

3. Composition/information on ingredients

Ingredient name

CAS#

%

Base oil - highly refined

Varies

5 - 10

Olefin sulfide amines, C12-14-alkyl, reaction products with hexanol phosphorus oxide 68937-96-2 91745-46-9 1 - 5 1 - 5

(p2o5), phosphorus sulfide (p2s5) and propylene oxide

Product name Castrol Syntrax Limited Slip 75W-90

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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.

5. Fire-fighting measures

Flash point Closed cup: 134°C (273.2°F) [Pensky-Martens.]

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

Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

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.

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

Hazardous combustion

products

Combustion products may include the following:

phosphorus oxides

carbon oxides (CO, CO2) (carbon monoxide, carbon dioxide)

sulfur oxides (SO₂, SO₃ etc.) nitrogen oxides (NO, NO₂ 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

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. Alternatively, or if water-insoluble, 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.

Product name Castrol Syntrax Limited Slip 75W-90

Product code

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(US)

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.

Prolonged exposure to elevated temperature

Other information

Not suitable

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

Occupational exposure limits

Base oil - highly refined

ACGIH (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mineral oil, mist

OSHA (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mineral oil, mist

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 Standard Operating Procedure (S.O.P) for special handling instructions.

9. Physical and chemical properties

Physical state

Liquid.

Color

Light

Odor

Mild.

Flash point

Closed cup: 134°C (273.2°F) [Pensky-Martens.]

Density

860 kg/m³ (0.86 g/cm³) at 15.6°C

Viscosity

Kinematic: 111 mm 2 /s (111 cSt) at 40°C Kinematic: 14.9 mm 2 /s (14.9 cSt) at 100°C

Solubility

insoluble in water.

Product name Castrol Syntrax Limited Slip 75W-90

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10. Stability and reactivity

Stability and reactivity

The product is stable.

Possibility of hazardous

reactions

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

Conditions to avoid

Avoid all possible sources of ignition (spark or flame).

Incompatibility with various substances Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition

products

This product may release hydrogen sulfide (H₂S) if it is heated to high temperatures.

Hazardous polymerization

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

11. Toxicological information

Other information

Contains low concentration of Olefin sulfide and Phosphoric acid esters, amine salt. Based on animal studies at high concentration may cause allergic skin reactions with repeated exposure.

Potential chronic health effects

Carcinogenicity

No known significant effects or critical hazards.

12. Ecological information

Ecotoxicity

No testing has been performed by the manufacturer.

Persistence/degradability

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

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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

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 5(a)2 proposed significant new use rules: Alkyl phosphonate, mixed ammonium monoethanolamine salt

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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: No products were found.

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

Limited Slip 75W-90: Immediate (acute) health hazard

SARA 313

Form R - Reporting requirements

This product does not contain any hazardous ingredients at or above regulated thresholds.

Supplier notification

This product does not contain any hazardous ingredients at or above regulated thresholds.

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4): CERCLA: Hazardous substances.: Cadmium (Non-pyrophoric): 10 lbs. (4.54 kg); lead: 10 lbs.

(4.54 kg); Arsenic: 1 lb. (0.454 kg); Ethyl acrylate: 1000 lbs. (454 kg);

State regulations

Massachusetts Substances None of the components are listed.

New Jersey Hazardous Substances None of the components are listed.

Pennsylvania RTK Hazardous Substances None of the components are listed.

California Prop. 65

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

Arsenic; Ethyl acrylate

WARNING: This product contains a chemical known to the State of California to cause cancer and

birth defects or other reproductive harm. Cadmium (Non-pyrophoric); lead

Other regulations

Canada inventory All components are listed or exempted.

REACH Status For the REACH status of this product please consult your company contact, as identified in Section

1.

Australia inventory (AICS)

All components are listed or exempted.

China inventory (IECSC)

All components are listed or exempted.

All components are listed or exempted.

Japan inventory (ENCS)
Korea inventory (KECI)

All components are listed or exempted.

Philippines inventory

(PICCS)

All components are listed or exempted.

16. Other information

Label requirements

CAUTION !

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

HMIS® Rating:

Health 1 Flammability 1 National Fire

National

Physical

Hazard Personal Protection

Association (U.S.A.)

Health

Fire hazard

0 Instability
Specific hazard

History

Date of issue

08/10/2011.

protection

Date of previous issue

No previous validation.

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Prepared by

Product Stewardship

Notice to reader

Product name Castrol Syntrax Limited Slip 75W-90

Product code

467619-US65

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Version 1

Date of issue 08/10/2011.

Format US

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(US)

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 BP Group.

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. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

Product name Castrol Syntrax Limited Slip 75W-90

Product code

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467619-US65

(US)

Material Safety Data Sheet



1. Product and company identification

Product name

Autran Syn 295

MSDS#

464239

Historic MSDS #:

0000001558 464239-US03

Code

464239-US03 US06 US65

Product use

Automatic 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

1 (866) 4 BP - MSDS

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

email: bpcares@bp.com

2. Hazards identification

Physical state

Liquid.

Color

Red.

Emergency overview

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.

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

Synthetic base stock. Proprietary performance additives.

Ingredient name

CAS#

%

Base oil - highly refined

Varies

1 - 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.

5. Fire-fighting measures

Flash point

Open cup: 235°C (455°F) [Cleveland.]

Fire/explosion hazards

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

Unusual fire/explosion

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

hazards

Extinguishing media

Suitable

Use an extinguishing agent suitable for the surrounding fire.

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.

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

Hazardous combustion

products

Combustion products may include the following:

carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

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

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.

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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.

8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name

Occupational exposure limits

Base oil - highly refined

ACGIH (United States).

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

OSHA (United States).

TWA: 5 mg/m3 8 hour(s). Form: Mineral oil, mist

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.

9. Physical and chemical properties

Physical state

Liquid.

Color Odor Red. Mild.

Flash point

Open cup: 235°C (455°F) [Cleveland.]

Density

850 kg/m3 (0.85 g/cm3) at 15°C

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Viscosity

Kinematic: 38.9 mm²/s (38.9 cSt) at 40°C Kinematic: 7.3 mm²/s (7.3 cSt) at 100°C

Solubility

insoluble in water.

10. Stability and reactivity

Stability and reactivity

The product is stable.

Possibility of hazardous reactions

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

Conditions to avoid

Avoid all possible sources of ignition (spark or flame).

Incompatibility with various substances

Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition

products

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

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

Ecotoxicity

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

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.

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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: No products were found.

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

295: Immediate (acute) health hazard

SARA 313

Form R - Reporting requirements

This product does not contain any hazardous ingredients at or above regulated thresholds.

Supplier notification

This product does not contain any hazardous ingredients at or above regulated thresholds.

CERCLA Sections 102a/103 Hazardous Substances (40 CFR CERCLA: Hazardous substances.: Ethyl acrylate: 1000 lbs. (454 kg);

Part 302.4): State regulations

Massachusetts Substances None of the components are listed.

New Jersey Hazardous

None of the components are listed.

Substances

None of the components are listed.

Pennsylvania RTK Hazardous Substances

California Prop. 65

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

Ethyl acrylate

Inventories

Canada inventory All components are listed or exempted.

Europe inventory All components are listed or exempted.

Australia inventory (AICS) All components are listed or exempted.

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)

Not determined.

16. Other information

Label requirements

CAUTION!

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

HMIS® Rating:

Health 1 Flammability 1

Х

National Fire Protection

Physical 0 Hazard Association (U.S.A.)

Health Fire hazard

O Instability

Specific hazard

History

Date of issue

07/15/2009.

Personal

protection

Date of previous issue

05/09/2006.

Prepared by

Product Stewardship

Notice to reader

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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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