SAFETY DATA SHEET



Section 1. Identification			
Product name	Duratec LD		
SDS #	470303		
Code	470303-AR08		
Relevant identified uses of	the substance or mixture and uses advised against		
Product use	Engine Oils. For specific application advice see appropriate Technical Data Sheet or consult our company representative.		
Supplier	BP Lubricants USA Inc. 1500 Valley Road Wayne, NJ 07470 Telephone: 1-888-CASTROL		
EMERGENCY HEALTH	1 (800) 447-8735		
INFORMATION:	Outside the US: +1 703-527-3887 (CHEMTREC)		
EMERGENCY SPILL INFORMATION:	1 (800) 424-9300 CHEMTREC (USA)		

Section 2. Hazards identification

OSHA/HCS status This material is not considered hazardous by the OSHA Hazard Co Standard (29 CFR 1910.1200).			
Classification of the substance or mixture	Not classified.		
GHS label elements			
Signal word	No signal word.		
Hazard statements	No known significant effects or critical hazards.		
Precautionary statements			
Prevention	Not applicable.		
Response	Not applicable.		
Storage	Not applicable.		
Disposal	Not applicable.		
Hazards not otherwise classified	None known.		

Section 3. Composition/information on ingredients

Substance/mixture

Mixture Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

Ingredient name	CAS number	%
Distillates (petroleum), solvent-refined heavy paraffinic	64742-54-7 64741-88-4 64742-56-9	≥75 - ≤90 ≤3 ≤3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water or use recognized skin cleanser. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	No specific treatment.

Section 5. Fire-fighting measures

In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.		
Do not use water jet.		
In a fire or if heated, a pressure increase will occur and the container may burst.		
Combustion products may include the following: metal oxide/oxides carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)		
nitrogen oxides (NO, NO ₂ etc.)		
No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.		
Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.		

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency	No action shall be taken involving any personal risk or without suitable training.
personnel	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from
	entering. Do not touch or walk through spilled material. Put on appropriate personal
	protective equipment. Floors may be slippery; use care to avoid falling.

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Section 6. Accidental release measures

For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".		
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 and materials for con	tainment and cleaning up		
Small spill	Stop leak if without risk. Move containers from spill area. Absorb with an inert materia and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.		
Large spill	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. 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. Dispose of via a licensed waste disposal contractor.		

Section 7. Handling and storage

Precautions for safe handling	
Protective measures	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. 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.
Not suitable	Prolonged exposure to elevated temperature

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Distillates (petroleum), hydrotreated heavy paraffinic

ACGIH TLV (United States).

TWA: 5 mg/m³ 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction **OSHA PEL (United States).** TWA: 5 mg/m³ 8 hours. Issued/Revised: 6/1993

Distillates (petroleum), solvent-refined heavy paraffinic

ACGIH TLV (United States).

TWA: 5 mg/m³ 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction **OSHA PEL (United States).** TWA: 5 mg/m³ 8 hours. Issued/Revised: 6/1993

Distillates (petroleum), solvent-dewaxed light paraffinic

ACGIH TLV (United States).

TWA: 5 mg/m³ 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction **OSHA PEL (United States).** TWA: 5 mg/m³ 8 hours. Issued/Revised: 6/1993

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Section 8. Exposure controls/personal protection

Appropriate engineering controls	All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
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. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety glasses with side shields.
Skin protection	
Hand protection	Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. 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.
Body protection	Use of protective clothing is good industrial practice. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u> Physical state Color

Odor threshold

Odor

Liquid.
Brown.
Not available.
Not available.

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Section 9. Physical and chemical properties

рН	Not applicable.						
Melting point/freezing point	Not available.						
Boiling point, initial boiling point, and boiling range	Not available.						
Flash point	Closed cup: >200°C Open cup: 268°C (5	• • •		-			
Pour point	-18 °C						
Evaporation rate	Not available.						
Flammability	Not applicable. Base	ed on - Phy	/sical sta	te			
Lower and upper explosion limit/flammability limit	Not available.						
Vapor pressure		Vapo	r Pressu	re at 20°C	Vap	or press	ure at 50°C
	Ingredient name	mm Hg	kPa	Method	mm	kPa	Method

Relative vapor density Not available. Density Particle characteristics Image of the serve of t	Image: state in the serve of the serve									
hydrotreated heavy paraffinicoooDistillates (petroleum), solvent-refined heavy paraffinic<0.08<0.011ASTM D 5191Distillates (petroleum), solvent-dewaxed light paraffinic<0.08<0.011ASTM D 5191Distillates (petroleum), solvent-dewaxed light paraffinic<0.01<0.011ASTM D 5191Distillates (petroleum), solvent-dewaxed light paraffinic<0.01<0.011ASTM D 5191DensityNot available.Density<1000 kg/m³ (<1 g/cm³) at 15°CSolubilityinsoluble in water.Partition coefficient: n- octanol/waterNot applicable.Auto-ignition temperatureIngredient name reaction mass of isomers of: C ?-9-aik(y 3-(3,5-d-tert-butyl- 4-hydroxyphenyl)propinate bis(nonylphenylamine365689Decomposition temperatureNot available.ViscosityKinematic: 108.8 mm²/s (108.8 cSt) at 40°C Kinematic: 12.5 to 13.9 mm²/s (12.5 to 13.9 cSt) at 100°CParticle characteristics Median particle sizeNot applicable.Section 10. Stability and reactivityReactivityNo specific test data available for this product. Refer to Conditions	hydrotreated heavy paraffinic 0.08 <0.011 ASTM D 5191 0 0 EU A.4 Distillates (petroleum), solvent-refined heavy paraffinic <0.08 <0.011 ASTM D 5191 0 0 EU A.4 Distillates (petroleum), solvent-dewaxed light paraffinic <0.01 <0.011 ASTM D 5191 0 0 EU A.4 sity Not available. <1000 kg/m³ (<1 g/cm³) at 15°C insoluble in water.		Ingredient name	mm Hg	kPa	Method		kPa	Method	
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Reactivity No specific test data available for this product. Refer to Conditions	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.	Particle characteristics								
	Incompatible materials for additional information.		Not applicable.							
	The product is stable.	Median particle size		ty						
Chemical stability The product is stable.		Median particle size Section 10. Stability	y and reactivi	available			fer to Co	onditions to	avoid and	

Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame).

Incompatible materials Reactive or incompatible with the following materials: oxidizing materials.

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Section 10. Stability and reactivity

Hazardous decomposition products

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

Section 11. Toxicological information

Information on toxicological effects

Name		Result
Distillates (petroleum), solven	t-dewaxed light paraffinic	ASPIRATION HAZARD - Category 1
Information on the likely routes of exposure	Routes of entry anticipated: Der	mal, Inhalation.
Potential acute health effects		
Eye contact	No known significant effects or o	ritical hazards.
Skin contact	No known significant effects or o	ritical hazards.
Inhalation	Exposure to decomposition proc be delayed following exposure.	lucts may cause a health hazard. Serious effects may
Ingestion	No known significant effects or o	ritical hazards.
Symptoms related to the physical	sical, chemical and toxicological	characteristics
Eye contact	No specific data.	
Skin contact	Adverse symptoms may include irritation dryness cracking	the following:
Inhalation	No specific data.	
Ingestion	No specific data.	
Delayed and immediate effect	ts and also chronic effects from s	hort and long term exposure
Short term exposure		
Short term exposure Potential immediate effects	Not available.	
Potential immediate	Not available. Not available.	
Potential immediate effects Potential delayed effects Long term exposure Potential immediate		
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects	Not available. Not available.	
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects	Not available. Not available. Not available.	
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects	Not available. Not available. Not available. Sects USED ENGINE OILS Combustion products resulting fi contaminate engine oils during u components which have the pot	rom the operation of internal combustion engines use. Used engine oil may contain hazardous ential to cause skin cancer. Frequent or prolonged s of used engine oil must therefore be avoided and a ne maintained.
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health effe	Not available. Not available. Not available. USED ENGINE OILS Combustion products resulting fi contaminate engine oils during u components which have the pot contact with all types and makes	use. Used engine oil may contain hazardous ential to cause skin cancer. Frequent or prolonged s of used engine oil must therefore be avoided and a ne maintained.
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Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health effe General Carcinogenicity	Not available. Not available. Not available. USED ENGINE OILS Combustion products resulting fr contaminate engine oils during u components which have the pot contact with all types and makes high standard of personal hygier No known significant effects or o	use. Used engine oil may contain hazardous ential to cause skin cancer. Frequent or prolonged s of used engine oil must therefore be avoided and a ne maintained. critical hazards.
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Numerical measures of toxicity

Acute toxicity estimates

Not available.

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Section 12. Ecological information

Toxicity

No testing has been performed by the manufacturer.

Persistence and degradability

Expected to be biodegradable.

Bioaccumulative potential

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

Mobility in soil	
Soil/water partition coefficient (Koc)	Not available.
Mobility	Spillages may penetrate the soil causing ground water contamination.
Other adverse effects	No known significant effects or critical hazards.
Other ecological information	Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

Section 13. Disposal considerations

Disposal methods 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

Special precautions for user Not available.

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Section 14. Transport information

Transport in bulk according No to IMO instruments

g Not available.

Section 15. Regulatory information

U.S. Federal regulations	
United States inventory (TSCA 8b)	All components are active or exempted.
Other regulations	
Australia inventory (AIIC)	All components are listed or exempted.
Canada inventory	All components are listed or exempted.
China inventory (IECSC)	All components are listed or exempted.
Japan inventory (CSCL)	All components are listed or exempted.
Korea inventory (KECI)	All components are listed or exempted.
Philippines inventory (PICCS)	All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI)	All components are listed or exempted.
REACH Status	For the REACH status of this product please identified in Section 1

For the REACH status of this product please consult your company contact, as identified in Section 1.

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	01/27/2022.
Date of previous issue	No previous validation.
Prepared by	Product Stewardship
Key to abbreviations	 ACGIH = American Conference of Industrial Hygienists ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS Number = Chemical Abstracts Service Registry Number GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) OEL = Occupational Exposure Limit SDS = Safety Data Sheet STEL = Short term exposure limit TWA = Time weighted average UN = United Nations UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods. Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64742-58-4, 64742-58-4, 64742-58-7, 64742-58-8, 64742-58-9, 72623-86-0, 72623-87-1

V 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

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Section 16. Other information

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.

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