

LUCAS OIL. Safety Data Sheet

Classified in accordance 29 CFR 1910.1200

1. Product Identification

Product Information:	10788
Product Identifier:	LUCAS DOT 4 BRAKE FLUID
Recommended Use:	Brake Fluid
Manufacturer/Importer/Distributor Information:	LUCAS OIL PRODUCTS INC 3199 Harrison Way NW Corydon, IN 47112 800-342-2512
Emergency Telephone:	For Chemical Emergency Call ChemTel 24hr/day 7days/week Within USA, Canada, Puerto Rico and US Virgin Islands: 1-800-255-3924
Restrictions on Use:	International: 1-813-248-0585 (collect calls accepted)
No Information	

2. Hazard(s) identification

Classification

Serious Eye Damage, category 1
Reproductive Toxicity, category 2

Label elements

HAZARD PICTOGRAMS



SIGNAL WORD

Danger

GHS HAZARD STATEMENTS

H318	Causes serious eye damage.
H361	Suspected of damaging fertility or the unborn child.

GHS PRECAUTIONARY STATEMENTS

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear eye protection, face protection, protective gloves, and protective clothing

Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER or doctor/physician.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other Information

None

3. Composition/Information on Ingredients**Mixtures**

<u>Chemical Identity</u>	<u>CAS Number</u>	<u>Content in Percent (%)*</u>
Triethylene Glycol Butyl Ether	143-22-6	30-60
Triethylene glycol monomethyl ether borate ester	30989-05-0	10-30
Diethylene Glycol	111-46-6	10-30
Polyethylene glycol monobutyl ether	9004-77-7	1-5
Diethylene Glycol Monobutyl Ether	112-34-5	1-5
Phenol, 2,6-bis(1,1-dimethylethyl)-4-(1-methylpropyl)-	17540-75-9	0.1-1.0

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments: Other components are not hazardous or are below required disclosure limits.

The exact concentration has been withheld as a trade secret.

4. First-aid Measures

SKIN CONTACT: Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

EYE CONTACT: Rinse immediately with plenty of water. Immediately flush eyes thoroughly with large quantities of water for at least 20 minutes, while holding the eye lids open to be sure the material is washed out. Remove contact lenses if present and easy to do. Get immediate medical attention.

INHALATION: Move to fresh air.

INGESTION: Rinse mouth.

IMPORTANT SYMPTOMS: May cause severe eye irritation and burns with possible eye damage.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: Get medical attention if symptoms occur.

5. Fire-fighting Measures

EXTINGUISHING MEDIA: Use fire-extinguishing media appropriate for surrounding materials.

UNSUITABLE EXTINGUISHING MEDIA: Do not use water jet as an extinguisher, as this will spread the fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: No unusual fire or explosion hazards noted.

SPECIAL FIREFIGHTING PROCEDURES: No data available

6. Accidental Release Measures

PERSONAL PRECAUTIONS : No data available

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

7. Handling and Storage

HANDLING: Wear personal protective equipment.

SAFE HANDLING ADVICE: No data available

STORAGE: No data available

NFPA 30B: No data available

8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits

<u>Chemical Name</u>	<u>TLV-TWA</u>	<u>TLV-STEL</u>	<u>PEL-TWA</u>	<u>PEL-CEILING</u>
Triethylene Glycol Butyl Ether	N.E.	N.E.	N.E.	N.E.
Triethylene glycol monomethyl ether borate ester	N.E.	N.E.	N.E.	N.E.
Diethylene Glycol	N.E.	N.E.	N.E.	N.E.
Polyethylene glycol monobutyl ether	N.E.	N.E.	N.E.	N.E.
Diethylene Glycol Monobutyl Ether	10 ppm	N.E.	N.E.	N.E.
Phenol, 2,6-bis(1,1-dimethylethyl)-4-(1-methylpropyl)-	N.E.	N.E.	N.E.	N.E.

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation
Sk = Skin Sensitizer N.E. = Not Established

ENGINEERING CONTROLS: Provide adequate ventilation.

Personal Protection

EYE/FACE PROTECTION: Wear goggles/face shield. Chemical safety goggles and faceshield should be worn where splashing is possible.

SKIN PROTECTION: No data available

RESPIRATORY PROTECTION: In case of insufficient ventilation wear suitable respiratory equipment. Seek advice from local supervisor.

HYGIENIC PRACTICES: General industrial hygiene practice. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

9. Physical and Chemical Properties

Appearance:

Physical State:	Liquid
Form:	Clear
Color:	Yellow
Odor:	Sweet
Odor Threshold:	No data available
pH:	No data available
Freeze Point, °C:	No data available
Boiling Point, °C:	245
Flash Point, °C:	121
Flammability (solid, gas):	No data available
Evaporation Rate:	No data available
Combustibility:	Does not Support Combustion
Explosive Limits, %:	No data available
Vapor Pressure @20°C, PSI:	0.001
Relative Vapor Density:	Heavier than Air
Relative Density:	No data available
Solubility in Water:	No data available
Partition Coefficient, n-octanol/water:	No data available
Auto-Ignition Temperature, °C:	No data available
Decomposition temperature, °C:	No data available
Kinematic Viscosity:	< 14 mm ² /s or cSt
Particle Characteristics:	
Size Range, microns (µm):	No data available
Percent under 10 microns:	No data available

10. Stability and Reactivity

REACTIVITY: Not reactive under normal conditions of use.

STABILITY: Material is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: No data available

CONDITIONS TO AVOID: Avoid heat or contamination

INCOMPATIBILITY: No data available

HAZARDOUS DECOMPOSITION PRODUCTS: No data available

11. Toxicological Information

Information on Likely Routes of Exposure

SKIN CONTACT EFFECTS: May cause irritation on prolonged or repeated contact.

EYE CONTACT EFFECTS: Exposure to the liquid causes severe eye burns and irreversible damage. Exposure to vapors may cause eye irritation, burning sensation, pain, watering, and vision changes.

INHALATION EFFECTS: Inhalation of high concentrations of mists may cause irritation of the nose throat and upper respiratory tract.

INGESTION EFFECTS: Ingestion may cause irritation of the mucous membranes, esophagus and stomach.

The following Chemicals are listed on IARC Monographs on the Evaluation of Carcinogenic Risk to Humans:

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>IARC Listing</u>
111-42-2	Diethanolamine	IARC Group 2B,
7631-99-4	Sodium Nitrate	IARC Group 2A,

The following Chemicals are listed on the U.S. National Toxicology Program (NTP) Report on Carcinogens:

No known NTP Chemicals

The following Chemicals are listed on U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>OSHA Listing</u>
111-42-2	Diethanolamine	Present
7631-99-4	Sodium Nitrate	Present

The following values are calculated based on chapter 3.1 of the GHS document. The product itself has not been tested.

<u>ATE ORAL</u>	2,920 mg/kg
<u>ATE DERMAL</u>	5,377 mg/kg
<u>ATE INHALATION</u>	Not classified for acute toxicity based on available data.

Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>
143-22-6	Triethylene Glycol Butyl Ether	5,000 mg/kg	3,540 mg/kg	100 mg/l
30989-05-0	Triethylene glycol monomethyl ether borate ester	5000 mg/kg	5000 mg/kg	100 mg/l
111-46-6	Diethylene Glycol	1,120 mg/kg	11890 mg/kg Rabbit	100 mg/l
9004-77-7	Polyethylene glycol monobutyl ether	5,000 mg/kg	5,000 mg/kg	100 mg/l
112-34-5	Diethylene Glycol Monobutyl Ether	2,410 mg/kg	2,764 mg/kg	100 mg/l
17540-75-9	Phenol, 2,6-bis(1,1-dimethylethyl)-4-(1-methylpropyl)-	4800 mg/kg Rat	5000 mg/kg	100 mg/l

N.I. = No Information

Skin Corrosion & Irritation:

Product: No data available

Serious Eye Damage & Irritation:

Product: No data available

Components:

Triethylene Glycol Butyl Ether 143-22-6 Causes serious eye damage.

Respiratory or Skin Sensitization:

Product: No data available

STOT-Single Exposure:

Product: No data available

STOT-Repeated Exposure:

Product: No data available

Aspiration Hazard:

Product: No data available

Carcinogenicity:

Product: No data available

Reproductive Toxicity:

Product: No data available

Components:

Triethylene glycol monomethyl ether borate ester 30989-05-0 Suspected of damaging fertility or the unborn child.

Germ Cell Mutagenicity:

Product: No data available

12. Ecological Information

ECOLOGICAL INFORMATION: No data available

PERSISTENCE: No data available

BIOACCUMULATE: No data available

MOBILITY IN SOIL: No data available

OTHER ECOLOGICAL: No data available

13. Disposal Information

DISPOSAL INFORMATION: Consult with your local, regional and federal agencies for information on proper disposal.

CONTAMINATED PACKAGING : Consult with your local, regional and federal agencies for information on proper disposal.

14. Transport Information

SPECIAL TRANSPORT PRECAUTIONS: No data available

DOT

UN Number: N/A
Proper Shipping Name: Not Regulated
Technical Name: N/A
Hazard Class(es)
Class: N/A
Subsidiary Risk N/A
Packing Group: N/A

IATA

UN Number: N/A
Proper Shipping Name: Not Regulated
Technical Name: N/A
Hazard Class(es)
Class: N/A
Subsidiary Risk: N/A
Packing Group: N/A

IMDG

UN Number:	N/A
Proper Shipping Name:	Not Regulated
Technical Name:	N/A
Hazard Class(es)	
Class:	N/A
Subsidiary Risk:	N/A
Packing Group:	N/A

The classification shown in this section may be eligible for use of an exception, such as 'Limited Quantity', per the dangerous goods regulations. The shipper of this product should consult the applicable mode's regulation for the UN number displayed above to determine if any exceptions are available and may be utilized, at the shipper's discretion.

15. Regulatory Information

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.	Wt %
Triethylene Glycol Butyl Ether	143-22-6	43.75
Diethylene Glycol Monobutyl Ether	112-34-5	1.63
Diethanolamine	111-42-2	0.75

CHEMICAL INVENTORY STATUS:

TSCA On or in compliance with the inventory

DSL All ingredients in this product are listed on the DSL or are exempt.

The following components are listed on the Non-Domestic Substance List (NDSL)

<u>Description</u>	<u>CAS</u>	<u>Percentage</u>
Diethylene Glycol	111-46-6	21.475 %

CALIFORNIA PROPOSITION 65 CARCINOGENS AND REPRODUCTIVE TOXINS:**WARNING**

This product can expose you to Diethanolamine, which is known to the State of California to cause cancer, and 2-Methoxyethanol which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

<u>Chemical Name</u>	<u>CAS-No.</u>
Diethanolamine	111-42-2
2-Methoxyethanol	109-86-4

16. Other Information

Revision Date: 2/5/2025

Datasheet produced by: Regulatory Department

Legend

N/A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

TLV - Threshold Limit Values (TLVs®), as established by the American Conference of Governmental Industrial Hygienists (ACGIH®)

PEL - Permissible Exposure Limit, as established by the U.S. Occupational Safety and Health Administration (OSHA), as amended

TSCA - U.S. Toxic Substance Control Act

DSL - Canada Environmental Protection Act: Domestic Substance List

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where the product use and frequency of exposure exceeds that established for the labeled consumer use.

Further Information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the manufacturer's and seller's control. Purchaser and user are responsible for determining the suitability of the product for a particular purpose, adopting precautions for the protection of property and persons, and compliance with all Federal, State, Provincial, and Local laws.

