1604 910440



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# **SAFETY DATA SHEET**

**SDS**: 1604

# 1604 DUOLEC® VARI-PURPOSE GEAR LUBRICANT

Issuing Date 04-24-2012 Revision Date 05-03-2017 Revision Number 6.1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Identifier** 

Product Name 1604 DUOLEC® VARI-PURPOSE GEAR LUBRICANT

Other means of identification

Synonyms No information available

Recommended use of the chemical and restrictions on use

Identified uses Lubricant

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Manufacturer

Lubrication Engineers Inc. 1919 E. Tulsa Wichita, KS 67216 USA 800-537-7683

**Emergency Telephone Number** 

CHEMTREC: 1-800-424-9300 (NORTH AMERICA) +1-703-527-3887 (INTERNATIONAL)

Version USA

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# 2. HAZARDS IDENTIFICATION

#### Classification

**OSHA Regulatory Status** 

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### **Label Elements**

# **Emergency Overview**

Signal Word

None

# **Hazard Statements**

None

The product contains no substances which at their given concentration, are considered to be hazardous to health

appearance purple Physical state liquid Odor Hydrocarbon-like

#### **Precautionary Statements - Prevention**

None.

Response

None.

Eyes

None.

Skin

None. Inhalation

None

None.

Ingestion

None.

Fire

None.

**Spill** None.

Storage

None.

**Disposal** 

None.

# Hazards not otherwise classified (HNOC)

None

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Amines, C12-14-alkyl, reaction products	91745-46-9	1 - 5

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The producer of "1604" declares that it contains less than 3% DMSO extractable material by IP-346

#### 4. FIRST AID MEASURES

**First Aid Measures** 

General Advice If symptoms develop move victim to fresh air. Show this safety data sheet to the doctor in

attendance. Do not breathe dust/fume/gas/mist/vapors/spray.

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while

rinsing.

**Skin Contact**Consult a physician if necessary. Wash off immediately with soap and plenty of water

removing all contaminated clothes and shoes.

**Inhalation** Move to fresh air. Consult a physician. If not breathing, give artificial respiration.

Ingestion May cause adverse kidney effects. Drink plenty of water. Do NOT induce vomiting.

**Protection of First-aiders**Use personal protective equipment.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Flash Point 210 °C / 410 °F

Suitable Extinguishing Media Water spray, Carbon dioxide (CO2), Foam, Dry chemical

<u>Unsuitable Extinguishing Media</u> Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Thermal decomposition can lead to release of irritating gases and vapors.

Chemical

**Explosion Data** 

Sensitivity to Mechanical Impact Not impact sensitive.

**Sensitivity to Static Discharge** May be ignited by friction, heat, sparks or flames.

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus and protective suit.

NFPA Health hazard 1 Flammability 1 Stability 1

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment.

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#### **Environmental Precautions**

**Environmental Precautions** Prevent entry into waterways, sewers, basements or confined areas. Beware of vapors

accumulating to form explosive concentrations. Vapors can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

advised if Significant Spillages Carmot be C

#### Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry

sand or earth), then place in a chemical waste container.

Methods for Cleaning up

Use personal protective equipment. Dam up. Take up mechanically and collect in suitable

container for disposal. Clean contaminated surface thoroughly.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Prevent

vapor buildup by providing adequate ventilation during and after use. Do not eat, drink or

smoke when using this product. .

#### Conditions for safe storage, including any incompatibilities

**Technical measures/Storage** 

conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep in a bunded area.

**Incompatible products.** Strong oxidizing agents. Strong acids. Strong bases.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mineral Oil 8042-47-5	TWA: 5 mg/m³	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 2500 mg/m³ TWA: 5 mg/m³ STEL: 10 mg/m³
White Mineral Oil 8042-47-5	TWA: 5 mg/m³	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 2500 mg/m³ TWA: 5 mg/m³ STEL: 10 mg/m³

#### Appropriate engineering controls

**Engineering Measures** Showers

Eyewash stations Ventilation systems.

# Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tightly fitting safety goggles.

**Skin and Body Protection** Long sleeved clothing. Protective gloves.

**Respiratory Protection**No protective equipment is needed under normal use conditions. If exposure limits are

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exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures When using, do not eat, drink or smoke. Remove and wash contaminated clothing before

re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state liquid appearance purple

Odor Hydrocarbon-like
Odor threshold No information available

<u>Property</u> <u>Property</u>

**pH** 6-8

Melting point/freezing pointNo data availableBoiling Point/Rangeno data availableFlash Point210 °C / 410 °FVapor pressureNo data availableVapor Density< 1 ( Air = 1 )</th>Specific Gravity0.887Water solubilitynegligible

Partition Coefficient: n-octanol/waterno data availableAutoignition TemperatureNo data availableDecomposition TemperatureNo data availableViscosity, kinematic156 cSt @ 40°C

## 10. STABILITY AND REACTIVITY

**reactivity** No information available

<u>Chemical stability</u> Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

**Conditions to Avoid** Heat, flames and sparks. Contact with other chemicals

Incompatible Materials Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

**Inhalation** May cause irritation of respiratory tract.

**Eye Contact** Contact with eyes may cause irritation.

**Skin Contact** May cause irritation.

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Ingestion There is no data available for this product.

#### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Amines, C12-14-alkyl, reaction	> 10000 mg/kg (Rat)	=	-
products			
91745-46-9			

### Information on toxicological effects

**Symptoms** No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

The producer of "1604" declares that it contains less than 3% DMSO extractable material by IP-346

**Sensitization** No information available.

Mutagenic Effects No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

Target Organ Effects Respiratory system, Eyes, Skin.

## Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

 ATEmix (oral)
 83514 mg/kg

 ATEmix (dermal)
 282721 mg/kg

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

	Chemical Name	Algae/aquatic plants	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
	Amines, C12-14-alkyl, reaction products	-	LC50 16 - 26 mg/L Pimephales promelas 96 h	-	LC50 < 1 mg/L 96 h
L	91745-46-9				

Persistence and Degradability No information available.

Bioaccumulation .

Mobility The product is insoluble and floats on water.

Chemical Name	Log Pow
Mineral Oil	>6
8042-47-5	
White Mineral Oil	>6

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8042-47-5	
Naphtha (petroleum), heavy aromatic 64742-94-5	2.9 - 6.1

Other Adverse Effects No information available

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste Disposal Methods Should not be released into the environment. Dispose of in accordance with local

regulations.

Contaminated Packaging Do not re-use empty containers. Empty containers should be taken to an approved waste

handling site for recycling or disposal.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

### 15. REGULATORY INFORMATION

#### International Inventories

TSCA Complies DSL/NDSL Not determined **NDSL** Not determined **EINECS** Not determined **ELINCS** Not determined **ENCS** Not determined **IECSC** Not determined KECL Not determined **PICCS** Not determined AICS Not determined

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

#### U.S. Federal Regulations

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#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material does not contain any components with a CERCLA RQ.

### **U.S. State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

# **16. OTHER INFORMATION**

Issuing Date04-24-2012Revision Date05-03-2017Reason for revisionUpdate to Format.

**Disclaimer** 

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SDS is available at www.LElubricants.com

**End of Safety Data Sheet**