

# **SAFETY DATA SHEET**

SDS: 6303 MONOLEC® ROCK DRILL LUBRICANT

Issuing Date 04-24-2012 Revision Date 05-15-2020 Revision Number 5

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product Identifier

Product Name 6303 MONOLEC® ROCK DRILL LUBRICANT

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Lubricant

Uses advised against Consumer use

### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only Manufacturer

<u>representative/downstream</u> Lubrication Engineers Inc.

user/distributor)1919 E. TulsaHH ComplianceWichita, KS 67216

Rubicon Centre, USA

CIT Campus, 800-537-7683

Bishopstown, Cork, Ireland T12 Y275 +353-21-4868121

For further information, please contact

techsupport@le-inc.net

### 1.4. Emergency telephone number

Emergency Telephone CHEMTREC: +1-703-527-3887 (INTERNATIONAL)

1-800-424-9300 (NORTH AMERICA)

Austria	Vergiftungsinformationszentrale (AT): +43-(0)1-406 43 43	
Belgium	Poison center (BE): +32 70 245 245	
Denmark	Poison Control Hotline (DK): +45 82 12 12 12	
Finland	Poison Information Centre (FI):+358 9 471 977	
France	ORFILA (FR): + 01 45 42 59 59	
Germany	Poison Center Berlin (DE): +49 030 30686 790	
Ireland	National Poisons Information Centre (IE): +353 1 8379964	
Italy	Poison Center, Milan (IT): +39 02 6610 1029	
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only	
	available to health professionals)	
Norway	Poisons Information (NO):+ 47 22 591300	
Poland	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97	
Portugal	Poison Information Center (PT): +351 21 330 3284	
Spain	Poison Information Service (ES): +34 91 562 04 20	

Issuing Date 04-24-2012 Revision Date 05-15-2020 Revision Number 5

 Sweden
 Poisons Information Center (SV):+46 8 33 12 31

 Switzerland
 Poison Center: Tel 145; +41 44 251 51 51

 United Kingdom
 NHS Direct (UK): +44 0845 46 47

# Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Chronic aquatic toxicity Category 3 - (H412)

### 2.2. Label Elements

Product Identifier Signal word

None

#### **Hazard Statements**

H412 - Harmful to aquatic life with long lasting effects

### Precautionary Statements - EU (§28, 1272/2008)

P273 - Avoid release to the environment, P501 - Dispose of contents/ container to an approved waste disposal plant

# 2.3. Other Hazards

Other hazards

Harmful to aquatic life

No information available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Chemical name	EC-No	CAS No.	Weight-%	Classification (Reg. 1272/2008)	REACH Registration Number
Mineral Oil	Present	8042-47-5	0.1 - 1	No data available	01-2119487078-2 7-0089
Alkenylamine	Present	112-90-3	< 0.1	Acute Tox. 4 (H302) Skin Corr. 1B (H314) STOT RE 2 (H373) STOT SE 3 (H335) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available
Phenol	Present	108-95-2	< 0.1	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Corr. 1B (H314) STOT RE 2 (H373) Muta. 2 (H341) Acute Tox. 3 (H331)	no data available

The producer of "6303" declares that it contains less than 3% DMSO extractable material by IP-346

Full text of H- and EUH-phrases: see section 16

Issuing Date 04-24-2012 Revision Date 05-15-2020 Revision Number 5

# Section 4: FIRST AID MEASURES

### 4.1. Description of 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.

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

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

removing all contaminated clothes and shoes.

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

rinsing.

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

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

4.2. Most important symptoms and effects, both acute and delayed

Symptoms None known.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

### Section 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

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

**Unsuitable Extinguishing Media**Do not use a solid water stream as it may scatter and spread fire.

**Flash Point** 229 °C / 444 °F

### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

### Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Do not touch or walk through spilled material. Remove all sources of ignition.

### 6.2. 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.

Issuing Date 04-24-2012 Revision Date 05-15-2020 Revision Number 5

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

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning up

Use personal protective equipment. Dam up. Take up mechanically, placing in appropriate

containers for disposal. Clean contaminated surface thoroughly.

#### 6.4. Reference to other sections

See Section 12 for more information.

# Section 7: HANDLING AND STORAGE

### 7.1. 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.

**Hygiene Measures**Handle in accordance with good industrial hygiene and safety practice.

### 7.2. 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.

### 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

### Occupational Exposure limits

Chemical name	European Union	The United Kingdom	France	Spain	Germany
Mineral Oil	-	-	-	TWA 5 mg/m <sup>3</sup>	AGW 5 mg/m <sup>3</sup>
8042-47-5				STEL 10 mg/m <sup>3</sup>	
Phenol	-	STEL 4 ppm	TWA 2 ppm	TWA 2 ppm	AGW 2 ppm
108-95-2		STEL 16 mg/m <sup>3</sup>	TWA 7.8 mg/m <sup>3</sup>	TWA 8 mg/m <sup>3</sup>	AGW 8 mg/m <sup>3</sup>
		TWA 2 ppm	STEL 4 ppm	STEL 4 ppm	H*
		TWA 7.8 mg/m <sup>3</sup>	STEL 15.6 mg/m <sup>3</sup>	STEL 16 mg/m <sup>3</sup>	
		Skin	M2	S*	
			P*		
Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark
Mineral Oil	-	TWA 5 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup>	TWA 1 mg/m <sup>3</sup>
8042-47-5		STEL 10 mg/m <sup>3</sup>			
Phenol	TWA 2 ppm	TWA 2 ppm	Huid*	TWA 2 ppm	TWA 1 ppm
108-95-2	TWA 8.0 mg/m <sup>3</sup>	TWA 8 mg/m <sup>3</sup>	TWA 8 mg/m <sup>3</sup>	TWA 8 mg/m <sup>3</sup>	TWA 4 mg/m <sup>3</sup>
	STEL 4 ppm	STEL 4 ppm		STEL 4 ppm	H*
	STEL 16 mg/m <sup>3</sup>	STEL 16 mg/m <sup>3</sup>		STEL 16 mg/m <sup>3</sup>	
	Pelle*	C(A4)		iho*	
		P*			
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Mineral Oil	-	SS-C**	TWA 5 mg/m <sup>3</sup>	TWA 1 mg/m <sup>3</sup>	TWA 5 ppm
8042-47-5		TWA 5 mg/m <sup>3</sup>	_	STEL 2 mg/m <sup>3</sup>	STEL 15 ppm

Issuing Date 04-24-2012 Revision Date 05-15-2020 Revision Number 5

Phenol 108-95-2	H* STEL 4 ppm STEL 16 mg/m <sup>3</sup> TWA 2 ppm TWA 8 mg/m <sup>3</sup>	H* TWA 5 ppm TWA 19 mg/m <sup>3</sup> STEL 5 ppm STEL 19 mg/m <sup>3</sup> M2	TWA 7.8 mg/m <sup>3</sup> STEL 16 mg/m <sup>3</sup>	TWA 1 ppm TWA 4 mg/m <sup>3</sup> S* STEL 3 ppm STEL 12 mg/m <sup>3</sup>	TWA 2 ppm TWA 8 mg/m³ STEL 4 ppm STEL 16 mg/m³ Skin
Chemical name	Hungary	Belgium	Czech Republic	Greece	Sweden
Mineral Oil 8042-47-5	Rákkelto hatású Ceiling 5mg/m³	TWA 5 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup> Ceiling 10 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup>	LLV 1 mg/m <sup>3</sup> Indicative STLV 3 mg/m <sup>3</sup>
Phenol 108-95-2	STEL 16mg/m <sup>3</sup> TWA 8mg/m <sup>3</sup> S*	TWA 2 ppm TWA 8 mg/m <sup>3</sup> STEL 4 ppm STEL 16 mg/m <sup>3</sup> D*	TWA 7.5 mg/m <sup>3</sup> Ceiling 15 mg/m <sup>3</sup> S*	TWA 2 ppm TWA 8 mg/m <sup>3</sup> S* STEL 4 ppm STEL 16 mg/m <sup>3</sup>	LLV 1 ppm LLV 4 mg/m³ Binding STLV 4 ppm Binding STLV 16 mg/m³ A*

Chemical name	European Union	The United Kingdom	France	Spain	Germany
Phenol	-	-	250	120	Biologische
108-95-2					Grenzwerte nach
					TRGS 903 sind zu
					beachten
Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark
Phenol	-	-	=	1.3	-
108-95-2					
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Phenol	-	250	=	=	-
108-95-2					

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration No

(PNEC)

No information available.

8.2. Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face Protection
Hand Protection
Skin and Body Protection
No special protective equipment required.
No special protective equipment required.
No special protective equipment required.

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

**Environmental Exposure Controls** Do not allow material to contaminate ground water system.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state liquid appearance red

Odor Hydrocarbon-like
Odor threshold No information available

Property Values
pH 6 - 8

Melting Point / Freezing Point No data available

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# SDS: 6303 MONOLEC® ROCK DRILL LUBRICANT

Issuing Date 04-24-2012 Revision Date 05-15-2020 Revision Number 5

Boiling point / boiling range No data available 229 °C / 444 °F **Flash Point Evaporation rate** No data available Flammability (solid, gas) No data available No data available Vapor pressure **Vapor Density** < 1 (Air = 1)**Specific Gravity** 0.8773 Water solubility negligible Partition coefficient: n-octanol/waterNo data available

Autoignition Temperature

Decomposition Temperature

Viscosity, kinematic

Explosive properties

No data available
No data available
98.72 cSt @ 40°C
No data available
No data available
No data available

### Section 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

None known.

### 10.2. Chemical stability

Stable under normal conditions.

### **Explosion Data**

Sensitivity to Mechanical Impact Not impact sensitive.

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

### 10.3. Possibility of hazardous reactions

**Hazardous reactions**None under normal processing.

### 10.4. Conditions to avoid

Heat, flames and sparks.

#### 10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

# Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

### **Acute Toxicity**

### **Product Information**

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

The producer of "6303" declares that it contains less than 3% DMSO extractable material by IP-346

**Issuing Date** 04-24-2012 Revision Date 05-15-2020 **Revision Number** 5

Inhalation May cause irritation of respiratory tract. Contact with eyes may cause irritation. **Eye Contact** 

**Skin Contact** May cause irritation.

Ingestion There is no data available for this product.

**Unknown Acute Toxicity** 98.27712% of the mixture consists of ingredient(s) of unknown toxicity.

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

ATEmix (oral) 15,446.40 mg/kg 6,179.60 mg/kg ATEmix (dermal)

**Component Information** 

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, hydrotreated heavy paraffinic	> 15 g/kg (Rat)	> 5000 mg/kg ( Rabbit )	-
Mineral Oil	> 5000 mg/kg (Rat) > 24 g/kg ( Rat)	-	= 2062 ppm (Rat) 4 h
Lubricating oils (petroleum), hydrotreated spent	> 2000 mg/kg (Rat)	> 4480 mg/kg ( Rabbit )	-
Long-chain alkyl amine	= 300 mg/kg (Rat)	= 1120 mg/kg (Rabbit)	-
Petroleum distillates, solvent dewaxed heavy paraffinic	> 15000 mg/kg (Rat)	> 5000 mg/kg ( Rabbit )	> 2400 mg/m³ (Rat) 4 h
Petroleum distillates, solvent-refined heavy paraffinic	> 5000 mg/kg (Rat)	> 2000 mg/kg ( Rabbit )	> 5530 mg/m³ (Rat) 4 h
Bis(2-ethylhexyl) hydrogen phosphate	= 1400 mg/kg (Rat) = 4940 µL/kg (Rat)	= 1250 μL/kg (Rabbit)> 2000 mg/kg (Rabbit)	-
Alkyl phosphate	= 3450 mg/kg (Rat)	> 4650 mg/kg (Rabbit)	-
Alkenylamine	= 1689 mg/kg (Rat)	-	-
Petroleum distillates, hydrotreated middle	= 7400 mg/kg (Rat)	> 2000 mg/kg ( Rabbit )	= 4.6 mg/L (Rat) 4 h
Petroleum distillates, solvent dewaxed light paraffinic	> 5000 mg/kg (Rat)	> 5000 mg/kg ( Rabbit )	> 5399 mg/m³ (Rat) 4 h
Dilauryl Hydrogen Phosphite	> 10 g/kg (Rat)	> 5 g/kg (Rabbit)	-
Petroleum distillates, hydrotreated light naphthenic	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2180 mg/m <sup>3</sup> (Rat) 4 h
Petroleum distillates, hydrotreated heavy naphthenic	> 5000 mg/kg (Rat)	> 2000 mg/kg ( Rabbit )	-
Methyl	> 4170 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate			
Phenol	= 317 mg/kg (Rat) = 340 mg/kg ( Rat)	= 630 mg/kg (Rabbit)	= 316 mg/m³ (Rat) 4 h

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

No information available. Sensitization

No information available. **Mutagenic Effects** 

**Carcinogenic Effects** 

No information available. Reproductive toxicity

STOT - single exposure No information available. · ·

# SDS: 6303 MONOLEC® ROCK DRILL LUBRICANT

Issuing Date 04-24-2012 Revision Date 05-15-2020 Revision Number 5

STOT - repeated exposure No information available.

Aspiration Hazard No information available.

# Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecotoxicity Harmful to aquatic life with long lasting effects Harmful to aquatic life

Chemical name	Algae/aquatic plants	Toxicity to Fish	Toxicity to daphnia and other
			aquatic invertebrates
Mineral Oil	-	LC50> 10000 mg/L Lepomis	<del>-</del>
		macrochirus 96 h	
Phenol	EC50 = 46.42 mg/L 96 h EC50 187	LC50 11.9 - 50.5 mg/L Pimephales	EC50 4.24 - 10.7 mg/L 48 h EC50
	- 279 mg/L 72 h EC50 0.0188 -	promelas 96 h LC50 20.5 - 25.6	10.2 - 15.5 mg/L 48 h
	0.1044 mg/L 96 h	mg/L Pimephales promelas 96 h	
		LC50= 32 mg/L Pimephales	
		promelas 96 h LC50 5.449 - 6.789	
		mg/L Oncorhynchus mykiss 96 h	
		LC50 33.9 - 43.3 mg/L Oryzias	
		latipes 96 h LC50 23.4 - 36.6 mg/L	
		Oryzias latipes 96 h LC50= 13.5	
		mg/L Lepomis macrochirus 96 h	
		LC50= 31 mg/L Poecilia reticulata	
		96 h LC50 4.23 - 7.49 mg/L	
		Oncorhynchus mykiss 96 h LC50=	
		0.00175 mg/L Cyprinus carpio 96 h	
		LC50 34.09 - 47.64 mg/L Poecilia	
		reticulata 96 h LC50 5.0 - 12.0 mg/L	
		Oncorhynchus mykiss 96 h LC50	
		7.5 - 14 mg/L Oncorhynchus mykiss	
		96 h LC50 11.9 - 25.3 mg/L	
		Lepomis macrochirus 96 h LC50=	
		11.5 mg/L Lepomis macrochirus 96	
		h LC50= 27.8 mg/L Brachydanio	
		rerio 96 h	

# 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

Chemical name	Log Pow
Mineral Oil	>6
Phenol	1.5

### 12.4. Mobility in soil

Mobility in soil No information available.

**Mobility** The product is insoluble and floats on water.

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# SDS: 6303 MONOLEC® ROCK DRILL LUBRICANT

Issuing Date 04-24-2012 Revision Date 05-15-2020 Revision Number 5

#### 12.5. Results of PBT and vPvB assessment

No information available.

#### 12.6. Other adverse effects

No information available

**Endocrine Disruptor Information** 

# Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Waste from Residues/Unused

**Products** 

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.

OTHER INFORMATION According to the European Waste Catalogue, Waste Codes are not product specific, but

application specific. Waste codes should be assigned by the user based on the application

for which the product was used.

# Section 14: TRANSPORT INFORMATION

**IMDG** Not regulated

ADR/RID Not regulated

ICAO/IATA Not regulated

### Section 15: REGULATORY INFORMATION

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water hazard class (WGK)

International Inventories

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

Issuing Date 04-24-2012 Revision Date 05-15-2020 Revision Number 5

Legend

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

**15.2. Chemical safety assessment** No information available

### Section 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3

H301 - Toxic if swallowed

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H331 - Toxic if inhaled

H335 - May cause respiratory irritation

H341 - Suspected of causing genetic defects

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

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Reason for revision Formulation.

### **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**