

**SAFETY DATA SHEET**

SDS: 6301

6301 MONOLEC® ROCK DRILL LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-21-2019

Revision Number 1.1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product Identifier**

Product Name 6301 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**Importer**

Master Fluid Solutions
501 W. Boundary Street
Perrysburg, OH 43551
USA
+1 419-874-7902

Manufacturer

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

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)

SDS: 6301

6301 MONOLEC® ROCK DRILL LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-21-2019

Revision Number 1.1

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**

Contains Petroleum distillates, solvent dewaxed light paraffinic

Signal word

None

Hazard Statements

H412 - Harmful to aquatic life with long lasting effects

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

P201 - Obtain special instructions before use, P202 - Do not handle until all safety precautions have been read and understood, P273 - Avoid release to the environment, P280 - Wear protective gloves/protective clothing/eye protection/face protection, P308 + P313 - IF exposed or concerned: Get medical advice/attention, 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	01-2119487078-27-0089
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
Naphtha (petroleum), hydrotreated heavy	Present	64742-48-9	< 0.1	No data available	no data available
Methyl methacrylate	Present	80-62-6	< 0.1	Skin Irrit. 2 (H315) Flam. Liq. 2 (H225) STOT SE 3 (H335) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	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

SDS: 6301

6301 MONOLEC® ROCK DRILL LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-21-2019

Revision Number 1.1

Naphthalene	Present	91-20-3	< 0.1	No data available	no data available
Isobutyl alcohol	Present	78-83-1	< 0.1	Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) STOT SE 3 (H335) STOT SE 3 (H336) Eye Dam. 1 (H318)	no data available
1,2,4 Trimethylbenzenes	Present	95-63-6	< 0.1	Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) STOT SE 3 (H335) Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)	no data available

The producer of "6301" declares that it contains less than 3% DMSO extractable material by IP-346

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

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	207 °C / 405 °F

SDS: 6301

6301 MONOLEC® ROCK DRILL LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-21-2019

Revision Number 1.1

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.

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
---------------	----------------	--------------------	--------	-------	---------

SDS: 6301

6301 MONOLEC® ROCK DRILL LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-21-2019

Revision Number 1.1

Mineral Oil 8042-47-5	-	-	-	TWA 5 mg/m ³ STEL 10 mg/m ³	AGW 5 mg/m ³
Methyl methacrylate 80-62-6	-	STEL 100 ppm STEL 416 mg/m ³ TWA 50 ppm TWA 208 mg/m ³	TWA 50 ppm TWA 205 mg/m ³ STEL 100 ppm STEL 410 mg/m ³	TWA 50 ppm STEL 100 ppm S+	AGW 50 ppm AGW 210 mg/m ³
Phenol 108-95-2	-	STEL 4 ppm STEL 16 mg/m ³ TWA 2 ppm TWA 7.8 mg/m ³ Skin	TWA 2 ppm TWA 7.8 mg/m ³ STEL 4 ppm STEL 15.6 mg/m ³ M2 P*	TWA 2 ppm TWA 8 mg/m ³ STEL 4 ppm STEL 16 mg/m ³ S*	AGW 2 ppm AGW 8 mg/m ³ H*
Naphthalene 91-20-3	TWA 10 ppm TWA 50 mg/m ³	-	TWA 10 ppm TWA 50 mg/m ³ C2	TWA 10 ppm TWA 53 mg/m ³ STEL 15 ppm STEL 80 mg/m ³ S*	AGW 0.1 ppm AGW 0.5 mg/m ³ H*
Isobutyl alcohol 78-83-1	-	STEL 75 ppm STEL 231 mg/m ³ TWA 50 ppm TWA 154 mg/m ³	TWA 50 ppm TWA 150 mg/m ³	TWA 50 ppm TWA 154 mg/m ³	AGW 100 ppm AGW 310 mg/m ³
1,2,4 Trimethylbenzenes 95-63-6	TWA 20 ppm TWA 100 mg/m ³	STEL 75 ppm STEL 375 mg/m ³ TWA 25 ppm TWA 125 mg/m ³	TWA 20 ppm TWA 100 mg/m ³ TWA 1000 mg/m ³ STEL 50 ppm STEL 250 mg/m ³ STEL 1500 mg/m ³	TWA 20 ppm TWA 100 mg/m ³	AGW 20 ppm AGW 100 mg/m ³
Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark
Mineral Oil 8042-47-5	-	TWA 5 mg/m ³ STEL 10 mg/m ³	TWA 5 mg/m ³	TWA 5 mg/m ³	TWA 1 mg/m ³
Methyl methacrylate 80-62-6	TWA 50 ppm STEL 100 ppm	TWA 50 ppm STEL 100 ppm S+ C(A4)	STEL 410 mg/m ³ TWA 205 mg/m ³	TWA 10 ppm TWA 42 mg/m ³ STEL 50 ppm STEL 210 mg/m ³	TWA 25 ppm TWA 102 mg/m ³ H*
Phenol 108-95-2	TWA 2 ppm TWA 8.0 mg/m ³ STEL 4 ppm STEL 16 mg/m ³ Pelle*	TWA 2 ppm TWA 8 mg/m ³ STEL 4 ppm STEL 16 mg/m ³ C(A4) P*	Huid* TWA 8 mg/m ³	TWA 2 ppm TWA 8 mg/m ³ STEL 4 ppm STEL 16 mg/m ³ iho*	TWA 1 ppm TWA 4 mg/m ³ H*
Naphthalene 91-20-3	-	TWA 10 ppm TWA 50 mg/m ³ STEL 15 ppm C(A4) P*	Huid* STEL 80 mg/m ³ TWA 50 mg/m ³ TWA 0.00055 mg/m ³	TWA 1 ppm TWA 5 mg/m ³ STEL 2 ppm STEL 10 mg/m ³	TWA 10 ppm TWA 50 mg/m ³ TWA 0.2 mg/m ³
Isobutyl alcohol 78-83-1	-	TWA 50 ppm	-	-	Ceiling 50 ppm Ceiling 150 mg/m ³ H*
1,2,4 Trimethylbenzenes 95-63-6	TWA 20 ppm TWA 100 mg/m ³	TWA 20 ppm TWA 100 mg/m ³ TWA 25 ppm	STEL 200 mg/m ³ TWA 100 mg/m ³	TWA 20 ppm TWA 100 mg/m ³	TWA 20 ppm TWA 100 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Mineral Oil 8042-47-5	-	SS-C** TWA 5 mg/m ³	TWA 5 mg/m ³	TWA 1 mg/m ³ STEL 2 mg/m ³	TWA 5 ppm STEL 15 ppm
Naphtha (petroleum), hydrotreated heavy 64742-48-9	-	TWA 50 ppm TWA 300 mg/m ³ STEL 100 ppm STEL 600 mg/m ³	TWA 300 mg/m ³ STEL 900 mg/m ³	-	-
Methyl methacrylate 80-62-6	STEL 100 ppm STEL 420 mg/m ³ TWA 50 ppm TWA 210 mg/m ³ Sh/Sah**	SS-C** S+ TWA 50 ppm TWA 210 mg/m ³ STEL 100 ppm	TWA 100 mg/m ³ STEL 300 mg/m ³	TWA 25 ppm TWA 100 mg/m ³ A+ STEL 100 ppm STEL 400 mg/m ³	TWA 50 ppm STEL 100 ppm Sensitizer

SDS: 6301

6301 MONOLEC® ROCK DRILL LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-21-2019

Revision Number 1.1

Phenol 108-95-2	H* STEL 4 ppm STEL 16 mg/m ³ TWA 2 ppm TWA 8 mg/m ³	STEL 420 mg/m ³ H* TWA 5 ppm TWA 19 mg/m ³ STEL 5 ppm STEL 19 mg/m ³ M2	TWA 7.8 mg/m ³ STEL 16 mg/m ³	TWA 1 ppm TWA 4 mg/m ³ S* STEL 3 ppm STEL 12 mg/m ³	TWA 2 ppm TWA 8 mg/m ³ STEL 4 ppm STEL 16 mg/m ³ Skin
Naphthalene 91-20-3	H* TWA 10 ppm TWA 50 mg/m ³ B C	H* TWA 10 ppm TWA 50 mg/m ³ C2	TWA 20 mg/m ³ TWA 0.002 mg/m ³ STEL 50 mg/m ³	TWA 10 ppm TWA 50 mg/m ³ TWA 0.04 mg/m ³ K** STEL 15 ppm STEL 75 mg/m ³ STEL 0.12 mg/m ³	TWA 10 ppm TWA 50 mg/m ³ STEL 15 ppm STEL 75 mg/m ³
Isobutyl alcohol 78-83-1	STEL 200 ppm STEL 600 mg/m ³ TWA 50 ppm TWA 150 mg/m ³	SS-C** TWA 50 ppm TWA 150 mg/m ³ STEL 50 ppm STEL 150 mg/m ³	TWA 100 mg/m ³ STEL 200 mg/m ³	Ceiling 25 ppm Ceiling 75 mg/m ³ S*	TWA 50 ppm TWA 150 mg/m ³ STEL 75 ppm STEL 225 mg/m ³
1,2,4 Trimethylbenzenes 95-63-6	STEL 30 ppm STEL 150 mg/m ³ TWA 20 ppm TWA 100 mg/m ³	SS-C** TWA 20 ppm TWA 100 mg/m ³ STEL 40 ppm STEL 200 mg/m ³	TWA 100 mg/m ³ STEL 170 mg/m ³	TWA 20 ppm TWA 100 mg/m ³ STEL 30 ppm STEL 125 mg/m ³	TWA 20 ppm TWA 100 mg/m ³ STEL 60 ppm STEL 300 mg/m ³ Skin
Chemical name	Hungary	Belgium	Czech Republic	Greece	Sweden
Mineral Oil 8042-47-5	Rákkeltó hatású Ceiling 5mg/m ³	TWA 5 mg/m ³ STEL 10 mg/m ³	TWA 5 mg/m ³ Ceiling 10 mg/m ³	TWA 5 mg/m ³	LLV 1 mg/m ³ Indicative STLV 3 mg/m ³
Methyl methacrylate 80-62-6	STEL 415mg/m ³ TWA 208mg/m ³ Érzékenyítő+ S*	TWA 50 ppm TWA 208 mg/m ³ STEL 100 ppm STEL 416 mg/m ³	TWA 50 mg/m ³ Ceiling 150 mg/m ³ S* Senzibilizátor	TWA 50 ppm STEL 100 ppm	LLV 50 ppm LLV 200 mg/m ³ Binding STLV 100 ppm Binding STLV 400 mg/m ³ S+
Phenol 108-95-2	STEL 16mg/m ³ TWA 8mg/m ³ S*	TWA 2 ppm TWA 8 mg/m ³ STEL 4 ppm STEL 16 mg/m ³ D*	TWA 7.5 mg/m ³ Ceiling 15 mg/m ³ S*	TWA 2 ppm TWA 8 mg/m ³ S* STEL 4 ppm STEL 16 mg/m ³	LLV 1 ppm LLV 4 mg/m ³ Binding STLV 4 ppm Binding STLV 16 mg/m ³ A*
Naphthalene 91-20-3	TWA 50mg/m ³ S*	TWA 10 ppm TWA 53 mg/m ³ STEL 15 ppm STEL 80 mg/m ³ D*	TWA 50 mg/m ³ Ceiling 100 mg/m ³	TWA 10 ppm TWA 50 mg/m ³	LLV 10 ppm LLV 50 mg/m ³ Indicative STLV 15 ppm Indicative STLV 80 mg/m ³
Isobutyl alcohol 78-83-1	-	TWA 50 ppm TWA 154 mg/m ³	TWA 300 mg/m ³ Ceiling 600 mg/m ³ S*	TWA 100 ppm TWA 300 mg/m ³ STEL 100 ppm STEL 300 mg/m ³	LLV 50 ppm LLV 150 mg/m ³ Indicative STLV 75 ppm Indicative STLV 250 mg/m ³ A*
1,2,4 Trimethylbenzenes 95-63-6	TWA 100mg/m ³	TWA 20 ppm TWA 100 mg/m ³	TWA 100 mg/m ³ Ceiling 250 mg/m ³ S*	TWA 25 ppm TWA 125 mg/m ³	LLV 25 ppm LLV 120 mg/m ³ Indicative STLV 35 ppm Indicative STLV 170 mg/m ³

Chemical name	European Union	The United Kingdom	France	Spain	Germany
Phenol	-	-	250	120	Biologische

SDS: 6301

6301 MONOLEC® ROCK DRILL LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-21-2019

Revision Number 1.1

108-95-2					Grenzwerte nach TRGS 903 sind zu beachten
Naphthalene 91-20-3	-	4	-	-	-
1,2,4 Trimethylbenzenes 95-63-6	-	-	600	-	Biologische Grenzwerte nach TRGS 903 sind zu beachten
Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark
Phenol 108-95-2	-	-	-	1.3	-
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Phenol 108-95-2	-	250	-	-	-

Derived No Effect Level (DNEL) No information available**Predicted No Effect Concentration (PNEC)** No information available.**8.2. Exposure controls****Engineering Measures** Ensure adequate ventilation, especially in confined areas.**Personal protective equipment****Eye/Face Protection**

Tightly fitting safety goggles.

Hand Protection

Protective gloves.

Skin and Body Protection

Long sleeved clothing.

Respiratory Protection

No protective equipment is needed under normal use conditions. If exposure limits are 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
Boiling point / boiling range	No data available
Flash Point	207 °C / 405 °F
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapor pressure	No data available
Vapor Density	< 1 (Air = 1)
Specific Gravity	0.87
Water solubility	negligible
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity, kinematic	32.31 cSt @ 40°C
Explosive properties	No data available

SDS: 6301

6301 MONOLEC® ROCK DRILL LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-21-2019

Revision Number 1.1

Oxidizing Properties 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 "6301" declares that it contains less than 3% DMSO extractable material by IP-346

Inhalation	May cause irritation of respiratory tract.
Eye Contact	Contact with eyes may cause irritation.
Skin Contact	May cause irritation.
Ingestion	There is no data available for this product.

Unknown Acute Toxicity 0% 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)	10,551.80 mg/kg
ATEmix (dermal)	5,528.20 mg/kg

Component Information

SDS: 6301

6301 MONOLEC® ROCK DRILL LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-21-2019

Revision Number 1.1

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, solvent dewaxed heavy paraffinic	> 15000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 2400 mg/m ³ (Rat) 4 h
Petroleum distillates, solvent dewaxed light paraffinic	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 5399 mg/m ³ (Rat) 4 h
Lubricating oils (petroleum), hydrotreated spent	> 2000 mg/kg (Rat)	> 4480 mg/kg (Rabbit)	-
Lubricating oils, petroleum, C15-30, hydrotreated neutral oil-based	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h
Amines, C12-14-alkyl, reaction products	> 10000 mg/kg (Rat)	-	-
Mineral Oil	> 5000 mg/kg (Rat) > 24 g/kg (Rat)	-	= 2062 ppm (Rat) 4 h
Alkenylamine	= 1689 mg/kg (Rat)	-	-
Dilauryl Hydrogen Phosphite	> 10 g/kg (Rat)	> 5 g/kg (Rabbit)	-
Naphtha (petroleum), hydrotreated heavy	> 6000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	> 8500 mg/m ³ (Rat) 4 h
Petroleum distillates, hydrotreated heavy naphthenic	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Petroleum distillates, hydrotreated light naphthenic	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2180 mg/m ³ (Rat) 4 h
Methyl methacrylate	8420 - 10000 mg/kg (Rat) = 7872 mg/kg (Rat)	5000 - 7500 mg/kg (Rabbit) > 5 g/kg (Rabbit)	= 7093 ppm (Rat) 4 h
Distillates, petroleum, sweetened middle	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 4.6 mg/L (Rat) 4 h
4,4'-Methylenebis(2,6-di-tert-butylphenol)	> 5000 mg/kg (Rat)	> 1400 mg/kg (Rabbit)	-
Polydimethylsiloxane	> 24 g/kg (Rat) > 17 g/kg (Rat)	> 2 g/kg (Rabbit)	-
Residual oils, petroleum, solvent deasphalted	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h
Naphtha (petroleum), heavy aromatic	> 5000 mg/kg (Rat)	> 2 mL/kg (Rabbit)	> 590 mg/m ³ (Rat) 4 h
Naphtha (petroleum) light aromatic	= 8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat) 4 h
Phenol	= 340 mg/kg (Rat) = 317 mg/kg (Rat)	= 630 mg/kg (Rabbit)	= 316 mg/m ³ (Rat) 4 h
Ortho-tert-butylphenol	= 440 mg/kg (Rat)	= 705 mg/kg (Rat)	= 1070 mg/m ³ (Rat) 4 h
Naphthalene	= 1110 mg/kg (Rat) = 490 mg/kg (Rat)	(= 1120 mg/kg (Rabbit) > 20 g/kg (Rabbit)	> 340 mg/m ³ (Rat) 1 h
1,2,4 Trimethylbenzenes	= 3280 mg/kg (Rat) = 8970 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m ³ (Rat) 4 h
Isobutyl alcohol	= 2460 mg/kg (Rat)	= 3400 mg/kg (Rabbit)	> 6.5 mg/L (Rat) 4 h

Skin corrosion/irritation No information available.**Serious eye damage/eye irritation** No information available.**Sensitization** No information available.**Mutagenic Effects** No information available.**Carcinogenic Effects**

Chemical name	European Union
Naphtha (petroleum), hydrotreated heavy	Category 2
Naphthalene	Category 3

Reproductive toxicity No information available.**STOT - single exposure** No information available.

SDS: 6301

6301 MONOLEC® ROCK DRILL LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-21-2019

Revision Number 1.1

STOT - repeated exposure No information available.

Aspiration Hazard No information available.

Section 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

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

Chemical name	Algae/aquatic plants	Toxicity to Fish	Toxicity to daphnia and other aquatic invertebrates
Mineral Oil	-	LC50> 10000 mg/L Lepomis macrochirus 96 h	-
Naphtha (petroleum), hydrotreated heavy	-	-	-
Methyl methacrylate	EC50 = 170 mg/L 96 h	LC50 125.5 - 190.7 mg/L Pimephales promelas 96 h LC50 153.9 - 341.8 mg/L Lepomis macrochirus 96 h LC50 170 - 206 mg/L Lepomis macrochirus 96 h LC50 243 - 275 mg/L Pimephales promelas 96 h LC50 326.4 - 426.9 mg/L Poecilia reticulata 96 h LC50> 79 mg/L Oncorhynchus mykiss 96 h	EC50 = 69 mg/L 48 h
Phenol	EC50 0.0188 - 0.1044 mg/L 96 h EC50 187 - 279 mg/L 72 h EC50 = 46.42 mg/L 96 h	LC50 11.9 - 25.3 mg/L Lepomis macrochirus 96 h LC50 11.9 - 50.5 mg/L Pimephales promelas 96 h LC50 20.5 - 25.6 mg/L Pimephales promelas 96 h LC50 23.4 - 36.6 mg/L Oryzias latipes 96 h LC50 33.9 - 43.3 mg/L Oryzias latipes 96 h LC50 34.09 - 47.64 mg/L Poecilia reticulata 96 h LC50 4.23 - 7.49 mg/L Oncorhynchus mykiss 96 h LC50 5.0 - 12.0 mg/L Oncorhynchus mykiss 96 h LC50 5.449 - 6.789 mg/L Oncorhynchus mykiss 96 h LC50 7.5 - 14 mg/L Oncorhynchus mykiss 96 h LC50= 0.00175 mg/L Cyprinus carpio 96 h LC50= 11.5 mg/L Lepomis macrochirus 96 h LC50= 13.5 mg/L Lepomis macrochirus 96 h LC50= 27.8 mg/L Brachydanio rerio 96 h LC50= 31 mg/L Poecilia reticulata 96 h LC50= 32 mg/L Pimephales promelas 96 h	EC50 10.2 - 15.5 mg/L 48 h EC50 4.24 - 10.7 mg/L 48 h
Naphthalene	-	-	-
Isobutyl alcohol	EC50 = 230 mg/L 48 h	LC50 1120 - 1520 mg/L Oncorhynchus mykiss 96 h LC50 1370 - 1670 mg/L Pimephales promelas 96 h LC50 1480 - 1730 mg/L Lepomis macrochirus 96 h LC50= 375 mg/L Pimephales promelas 96 h	EC50 1070 - 1933 mg/L 48 h EC50 = 1300 mg/L 48 h
1,2,4 Trimethylbenzenes	-	LC50 7.19 - 8.28 mg/L Pimephales promelas 96 h LC50= 7.72 mg/L Pimephales promelas 96 h	EC50 = 6.14 mg/L 48 h

SDS: 6301

6301 MONOLEC® ROCK DRILL LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-21-2019

Revision Number 1.1

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available

Chemical name	Log Pow
Mineral Oil	>6
Methyl methacrylate	0.7
Phenol	1.5
Naphthalene	3.6
Isobutyl alcohol	0.79
1,2,4 Trimethylbenzenes	3.63

12.4. Mobility in soil**Mobility in soil** No information available.**Mobility** The product is insoluble and floats on water.**12.5. Results of PBT and vPvB assessment**

No information available.

12.6. Other adverse effects

No information available

Endocrine Disruptor Information

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Naphthalene	Group III Chemical	-	-

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.

SDS: 6301

6301 MONOLEC® ROCK DRILL LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-21-2019

Revision Number 1.1

Section 14: TRANSPORT INFORMATIONIMDG Not regulatedADR/RID Not regulatedICAO/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)** 1**International Inventories**

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

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**

H225 - Highly flammable liquid and vapor
H226 - Flammable liquid and vapor
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
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H331 - Toxic if inhaled
H332 - Harmful if inhaled
H335 - May cause respiratory irritation

SDS: 6301

6301 MONOLEC® ROCK DRILL LUBRICANT**Issuing Date** 04-24-2012**Revision Date** 02-21-2019**Revision Number** 1.1

H336 - May cause drowsiness or dizziness

H340 - May cause genetic defects

H341 - Suspected of causing genetic defects

H350 - May cause cancer

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

H411 - Toxic to aquatic life with long lasting effects

Issuing Date 04-24-2012**Revision Date** 02-21-2019**Reason for revision** General Information.**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**