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SAFETY DATA SHEET

SDS: 4051

4051 H1 QUINPLEX® HIGH TEMPERATURE LUBRICANT

Issuing Date 05-02-2017 Revision Date 03-31-2020 Revision Number 5

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

1.1. Product Identifier

Product Name 4051 H1 QUINPLEX® HIGH TEMPERATURE LUBRICANT

Contains Ethanol

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

representative/downstream user/distributor)

HH Compliance Rubicon Centre,

CIT Campus,

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)

Lubrication Engineers Inc.

1919 E. Tulsa Wichita, KS 67216

USA

800-537-7683

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Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Specific target organ toxicity (repeated exposure)	Category 2
Acute aquatic toxicity	Category 3
Chronic aquatic toxicity	Category 3

2.2. Label Elements



Signal word WARNING

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

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P308 + P313 - IF exposed or concerned: Get medical advice/ attention

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

P260 - Do not breathe dust/fume/gas/mist/vapors/spray P314 - Get medical advice/ attention if you feel unwell

P273 - Avoid release to the environment

2.3. Other Hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Chemical name	EC-No	CAS No.	Weight-%	Classification	Classification (Reg. 1272/2008)	REACH Registration Number
Petroleum distillates, hydrotreated heavy paraffinic	Present	64742-54-7	54	-	No data available	01-2119484627-25-0 097
Polyisobutene	=	9003-27-4	28.725	-	No data available	no data available
Coconut Oil	Present	8001-31-8	2.5	-	No data available	no data available
Decanedioic acid.	Present	17265-14-4	2	-	No data available	no data available

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sodium salt (1:2)						
Ethanol	Present	64-17-5	1.07143	F; R11	Flam. Liq. 2 (H225)	no data available
Petroleum distillates, hydrotreated middle	Present	64742-46-7	0.5	-	No data available	no data available

The producer of "4051" declares that it contains less than 3% DMSO extractable material by IP-346

For the full text of the R-phrases mentioned in this Section, see Section 16

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

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation Move to fresh air.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion Drink plenty of water. Do NOT induce vomiting.

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 288 °C / 550.4 °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

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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

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. 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 Handle in accordance with good industrial hygiene and safety practice. When using, do not

eat, drink or smoke. For personal protection see section 8.

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.

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	New Zealand WEL	Australia	Japan	China	Hong Kong
Petroleum distillates,	-	<u>-</u>	C1	=	-
hydrotreated heavy					
paraffinic					
64742-54-7					
Ethanol	TWA 1000 ppm	TWA 1000 ppm	-	-	TWA 1000 ppm
64-17-5	TWA 1880 mg/m ³	TWA 1880 mg/m ³			TWA 1880 mg/m ³
Butylated Hydroxy Toluene	TWA 10 mg/m ³	TWA 10 mg/m ³	-	-	-
128-37-0					
Silica, quartz	TWA 0.1 mg/m ³	TWA 0.1 mg/m ³	OEL 0.03 mg/m ³	TWA 0.7 mg/m ³	TWA 0.1 mg/m ³
14808-60-7			C1	TWA 0.3 mg/m ³	
			ISHL/:	TWA 1 mg/m ³	
				TWA 0.5 mg/m ³	

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						TWA 0.2 mg/n STEL 2 mg/n STEL 1.4 mg/ STEL 1 mg/n STEL 0.6 mg/ STEL 0.4 mg/ C1	n ³ m ³ n ³ m ³			
Isopropyl alcohol 67-63-0	TWA 400 ppm TWA 983 mg/m ³ STEL 500 ppm STEL 1230 mg/m ³	500 ppm STEL; 1230 mg/m³ STEL TWA 400 ppm TWA 983 mg/m³		mg/m³ STEL Ceiling: 9		TWA 350 mg/ STEL 700 mg/		TWA 400 ppm TWA 983 mg/m ³ STEL 500 ppm STEL 1230 mg/m ³		
Chemical name	Indonesia		Malaysia	Philip	pines	Singapore		Korea		
Ethanol 64-17-5	TWA 1000 ppm	TWA 1000 ppm TWA 1880 mg/m ³			TWA 1000 ppm PEL TWA 1900 mg/m ³ PEL:			TWA 1000 ppm		
Butylated Hydroxy Toluene 128-37-0	TWA 10 mg/m ³ C(A4)	TWA 10 mg/m ³			=	PEL: 10 mg/r	n³	TWA 2 mg/m ³		
Silica, quartz 14808-60-7	TWA 0.1 mg/m ³	TV	VA 0.1 mg/m ³	0.1 mg/m ³		PEL: 0.1 mg/r	m³	TWA 0.05 mg/m ³		
Isopropyl alcohol 67-63-0	TWA 400 ppm TWA 983 mg/m ³ STEL 500 ppm STEL 1230 mg/m ³	TWA 400 ppm TWA 983 mg/m ³		TWA 4 TWA 98	00 ppm 0 mg/m ³	STEL: 500 pp STEL: 1230 mg PEL: 400 ppr PEL: 983 mg/	g/m³ m	STEL 400 ppm TWA 200 ppm		
Chemical name	Taiwan		Thailar	nd		Brazil		Chile		
Ethanol 64-17-5	STEL 1000 ppm STEL 1880 mg/m		-					TWA: 780 ppm TWA: 1480 mg/m ³		TWA: 875 ppm TWA: 1645 mg/m³
Silica, quartz 14808-60-7	-	TWA		TWA		-		TWA: 0.08 mg/m ³		
Isopropyl alcohol 67-63-0	STEL 500 ppm STEL 1228.75 mg/i	n 3				A: 310 ppm : 765 mg/m³ Skin	;	TWA: 350 ppm TWA: 858 mg/m³ STEL: 500 ppm STEL: 1230 mg/m³		

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration No infor

(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 Rubber/latex/neoprene or other suitable chemical resistant 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 No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state Paste appearance beige

Odor Hydrocarbon-like
Odor threshold No information available

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Property Values 6 - 8

Melting Point / Freezing Point No data available **Boiling point / boiling range** No data available 288 °C / 550.4 °F **Flash Point** No data available **Evaporation rate** Flammability (solid, gas) No data available Vapor pressure No data available **Vapor Density** < 1 (Air = 1)**Specific Gravity** 0.95 Water solubility negligible Partition coefficient: n-octanol/waterNo data available **Autoignition Temperature** No data available No data available **Decomposition Temperature** not applicable Viscosity, kinematic **Explosive properties** No data available No data available **Oxidizing Properties**

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. Contact with other chemicals.

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

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Product Information

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

The producer of "4051" declares that it contains less than 3% DMSO extractable material by IP-346

InhalationMay cause irritation of respiratory tract.Eye ContactContact with eyes may cause irritation.

Skin Contact May cause irritation.

Ingestion There is no data available for this product.

Unknown Acute Toxicity 97.6789305% 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)
 14,086.50 mg/kg

 ATEmix (dermal)
 6,258.90 mg/kg

 ATEmix (inhalation-dust/mist)
 394.80 mg/l

Component Information

Carcinogenic Effects

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, hydrotreated	> 15 g/kg (Rat)	> 5000 mg/kg (Rabbit)	-
heavy paraffinic			
Coconut Oil	> 5000 mg/kg (Rat)	-	-
Ethanol	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
Petroleum distillates, hydrotreated	= 7400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 4.6 mg/L (Rat) 4 h
middle			- ' '
Benzenamine, N-phenyl-, reaction	> 5000 mg/kg (Rat)	-	-
products with 2,4,4-trimethylpentene			
Butylated Hydroxy Toluene	> 2930 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Water	> 90 mL/kg (Rat)	-	-
Isopropyl alcohol	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m ³ (Rat) 4 h
Quaternary ammonium compounds,	> 5000 mg/kg (Rat)	-	> 12.6 mg/L (Rat) 4 h
bis(hydrogenated tallow			, ,
alkyl)dimethyl, salts with bentonite			

Skin corrosion/irritationNo information available.Serious eye damage/eye irritationNo information available.SensitizationNo information available.Mutagenic EffectsNo information available.

Chemical name	IARC
Ethanol	-
Silica, quartz	-
Isopropyl alcohol	-

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposureCauses damage to organs through prolonged or repeated exposure.

No information available

Target Organ Effects Blood, Central nervous system (CNS), Respiratory system, Eyes, Liver, Skin, Reproductive

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system.

Aspiration Hazard No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity Harmful to aquatic life with long lasting effects

Chemical name	Algae/aquatic plants	Toxicity to Fish	Toxicity to daphnia and other aquatic invertebrates
Petroleum distillates, hydrotreated heavy paraffinic	-	-	-
Ethanol	-	LC50 12.0 - 16.0 mL/L Oncorhynchus mykiss 96 h LC50> 100 mg/L Pimephales promelas 96 h LC50 13400 - 15100 mg/L Pimephales promelas 96 h	EC50 = 10800 mg/L 24 h LC50 9268 - 14221 mg/L 48 h EC50 = 2 mg/L 48 h
Petroleum distillates, hydrotreated middle	-	-	-
Butylated Hydroxy Toluene	EC50 = 6 mg/L 72 h EC50 > 0.42 mg/L 72 h	-	-
Isopropyl alcohol	-	-	-

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Chemical name	Log Pow
Ethanol	-0.32
Butylated Hydroxy Toluene	4.17
Isopropyl alcohol	0.05

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

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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.

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

International Inventories

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

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

Japan

	T =	T	r	T	I	
Chemical name	Dangerous	Organic solvents	Harmful	Pollution Release	Pollution Release	Poisonous and
	Substances		Substances	and Transfer	and Transfer	Deleterious
			Whose Names	Registry (Class	Registry (Class I):	Substances
			Are to be	II):		Control Law
			Indicated on the	1		

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			Label			
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	>=0.1 %	-	Х	-	-	-
Ethanol 64-17-5	Flammable substance >=0.1 %	-	Х	-	-	-
Butylated Hydroxy Toluene 128-37-0	>=0.1 %	-	Х	-	207	-
Silica, quartz 14808-60-7	>=0.1 %	-	Х	-	-	-
Isopropyl alcohol 67-63-0	Flammable substance >=0.1 %	Class 2 Organic Solvent	Х	-	-	-

Section 16: OTHER INFORMATION

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

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

Issuing Date 05-02-2017

Revision Date 03-31-2020

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