

SAFETY DATA SHEET

SDS: 4058

4058 H1 QUINPLEX® PENETRATING OIL & LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-18-2019

Revision Number 1.1

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

1.1. Product Identifier

Product Name 4058 H1 QUINPLEX® PENETRATING OIL & 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)

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Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label Elements

Product Identifier

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Signal word

None

Hazard Statements

EUH210 - Safety data sheet available on request

2.3. Other Hazards

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
White Mineral Oil	Present	8042-47-5	80 - 90	No data available	01-2119487078-2 7-0089
Distillates (petroleum), hydrotreated light	Present	64742-47-8	10 - 20	No data available	01-2119456620-4 3-0019
Ethanol	Present	64-17-5	< 0.1	Flam. Liq. 2 (H225)	no data available
Benzaldehyde	Present	100-52-7	< 0.1	Acute Tox. 4 (H302)	no data available
Isopropyl alcohol	Present	67-63-0	< 0.1	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)	no data available
Diphenylamine	Present	122-39-4	< 0.1	Acute Tox. 3 (H301) Acute Tox. 3 (H311) STOT RE 2 (H373) Acute Tox. 3 (H331) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available

The producer of "4058" 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

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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	Do NOT induce vomiting. May cause adverse kidney effects. Drink plenty of water.
Protection of First-aiders	Use personal protective equipment.

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

Symptoms	None known.
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4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media	Water spray, Carbon dioxide (CO ₂), Foam, Dry chemical
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
Flash Point	151 °C / 303.8 °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.
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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.

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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. Neutralize with acid.

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

Chemical name	European Union	The United Kingdom	France	Spain	Germany
White Mineral Oil 8042-47-5	-	-	-	TWA 5 mg/m ³ STEL 10 mg/m ³	AGW 5 mg/m ³
Ethanol 64-17-5	-	STEL 3000 ppm STEL 5760 mg/m ³ TWA 1000 ppm TWA 1920 mg/m ³	TWA 1000 ppm TWA 1900 mg/m ³ STEL 5000 ppm STEL 9500 mg/m ³	STEL 1000 ppm STEL 1910 mg/m ³	AGW 500 ppm AGW 960 mg/m ³
Isopropyl alcohol 67-63-0	-	STEL 500 ppm STEL 1250 mg/m ³ TWA 400 ppm TWA 999 mg/m ³	STEL 400 ppm STEL 980 mg/m ³	TWA 200 ppm TWA 500 mg/m ³ STEL 400 ppm STEL 1000 mg/m ³	AGW 200 ppm AGW 500 mg/m ³
Diphenylamine 122-39-4	-	STEL 20 mg/m ³ TWA 10 mg/m ³	TWA 10 mg/m ³	TWA 10 mg/m ³	AGW 5 mg/m ³ H*
Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark
White 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
Ethanol 64-17-5	-	TWA 1000 ppm C(A4)	Huid* STEL 1900 mg/m ³ TWA 260 mg/m ³	TWA 1000 ppm TWA 1900 mg/m ³ STEL 1300 ppm STEL 2500 mg/m ³	TWA 1000 ppm TWA 1900 mg/m ³
Benzaldehyde 100-52-7	-	-	-	TWA 1 ppm TWA 4.4 mg/m ³ STEL 4 ppm	-

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				STEL 17.4 mg/m ³ Ceiling 4 ppm Ceiling 17.4 mg/m ³	
Isopropyl alcohol 67-63-0	-	TWA 200 ppm STEL 400 ppm C(A4)	-	TWA 200 ppm TWA 500 mg/m ³ STEL 250 ppm STEL 620 mg/m ³	TWA 200 ppm TWA 490 mg/m ³
Diphenylamine 122-39-4	-	TWA 10 mg/m ³ C(A4)	-	TWA 5 mg/m ³ STEL 10 mg/m ³	TWA 5 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
White 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
Distillates (petroleum), hydrotreated light 64742-47-8	-	SS-C** TWA 350 mg/m ³ STEL 700 mg/m ³	-	-	-
Ethanol 64-17-5	STEL 2000 ppm STEL 3800 mg/m ³ TWA 1000 ppm TWA 1900 mg/m ³	SS-C** TWA 500 ppm TWA 960 mg/m ³ STEL 1000 ppm STEL 1920 mg/m ³	TWA 1900 mg/m ³	TWA 500 ppm TWA 950 mg/m ³ STEL 625 ppm STEL 1187.5 mg/m ³	STEL 1000 ppm
Benzaldehyde 100-52-7	-	-	TWA 10 mg/m ³ STEL 40 mg/m ³	-	-
Isopropyl alcohol 67-63-0	STEL 800 ppm STEL 2000 mg/m ³ TWA 200 ppm TWA 500 mg/m ³ C	SS-C** TWA 200 ppm TWA 500 mg/m ³ STEL 400 ppm STEL 1000 mg/m ³	TWA 900 mg/m ³ STEL 1200 mg/m ³	TWA 100 ppm TWA 245 mg/m ³ STEL 125 ppm STEL 306.25 mg/m ³	TWA 200 ppm STEL 400 ppm Skin
Diphenylamine 122-39-4	H* STEL 1.4 ppm STEL 10 mg/m ³ TWA 0.7 ppm TWA 5 mg/m ³	SS-C** H* TWA 10 mg/m ³	-	TWA 5 mg/m ³ STEL 10 mg/m ³	TWA 10 mg/m ³ STEL 20 mg/m ³
Chemical name	Hungary	Belgium	Czech Republic	Greece	Sweden
White 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
Ethanol 64-17-5	STEL 7600mg/m ³ TWA 1900mg/m ³	TWA 1000 ppm TWA 1907 mg/m ³	TWA 1000 mg/m ³ Ceiling 3000 mg/m ³	TWA 1000 ppm TWA 1900 mg/m ³	LLV 500 ppm LLV 1000 mg/m ³ Indicative STLV 1000 ppm Indicative STLV 1900 mg/m ³
Benzaldehyde 100-52-7	STEL 10mg/m ³ TWA 5mg/m ³	-	-	-	-
Isopropyl alcohol 67-63-0	STEL 2000mg/m ³ TWA 500mg/m ³ S*	TWA 200 ppm TWA 500 mg/m ³ STEL 400 ppm STEL 1000 mg/m ³	TWA 500 mg/m ³ Ceiling 1000 mg/m ³ S*	TWA 400 ppm TWA 980 mg/m ³ STEL 500 ppm STEL 1225 mg/m ³	LLV 150 ppm LLV 350 mg/m ³ Indicative STLV 250 ppm Indicative STLV 600 mg/m ³
Diphenylamine 122-39-4	-	TWA 10 mg/m ³	TWA 10 mg/m ³ Ceiling 20 mg/m ³ Chronické účinky** S*	TWA 10 mg/m ³ STEL 20 mg/m ³	LLV 4 mg/m ³ Indicative STLV 12 mg/m ³

Chemical name	European Union	The United Kingdom	France	Spain	Germany
Isopropyl alcohol 67-63-0	-	-	-	40	Biologische Grenzwerte nach TRGS 903 sind zu beachten
Chemical name	Austria	Switzerland	Poland	Norway	Ireland

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Isopropyl alcohol 67-63-0	-	25	-	-	-
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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 light yellow
Odor Hydrocarbon-like
Odor threshold No information available

<u>Property</u>	<u>Values</u>
pH	6 - 8
Melting Point / Freezing Point	No data available
Boiling point / boiling range	No data available
Flash Point	151 °C / 303.8 °F
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapor pressure	No data available
Vapor Density	< 1 (Air = 1)
Specific Gravity	0.88
Water solubility	negligible
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity, kinematic	38.38 cSt @ 40°C
Explosive properties	No data available
Oxidizing Properties	No data available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

None known.

10.2. Chemical stability

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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 "4058" 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 6.77267129% 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)	44,346.00 mg/kg
ATEmix (dermal)	53,224.00 mg/kg

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
White Mineral Oil	> 5000 mg/kg (Rat) > 24 g/kg (Rat)	-	= 2062 ppm (Rat) 4 h
Distillates (petroleum), hydrotreated light	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	> 5000 mg/kg (Rat)	-	-
Ethanol	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
Benzaldehyde	= 1292 mg/kg (Rat)	> 1250 mg/kg (Rabbit)	-

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benzoic acid	= 1700 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 12.2 mg/L (Rat) 4 h > 26 mg/m ³ (Rat) 1 h
Oleic Acid	= 25 g/kg (Rat) > 5000 mg/kg (Rat)	-	-
Isopropyl alcohol	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m ³ (Rat) 4 h
Diphenylamine	= 1120 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-

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	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organ Effects	Respiratory system, Eyes, Skin.
Aspiration Hazard	No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Toxicity to Fish	Toxicity to daphnia and other aquatic invertebrates
White Mineral Oil	-	LC50> 10000 mg/L Lepomis macrochirus 96 h	-
Distillates (petroleum), hydrotreated light	-	-	-
Ethanol	-	LC50 12.0 - 16.0 mL/L Oncorhynchus mykiss 96 h LC50 13400 - 15100 mg/L Pimephales promelas 96 h LC50> 100 mg/L Pimephales promelas 96 h	LC50 9268 - 14221 mg/L 48 h EC50 = 10800 mg/L 24 h EC50 = 2 mg/L 48 h
Benzaldehyde	-	LC50 0.8 - 1.44 mg/L Lepomis macrochirus 96 h LC50 10.6 - 11.8 mg/L Oncorhynchus mykiss 96 h LC50 6.8 - 8.53 mg/L Pimephales promelas 96 h LC50= 12.69 mg/L Oncorhynchus mykiss 96 h LC50= 7.5 mg/L Lepomis macrochirus 96 h	EC50 = 50 mg/L 24 h
Isopropyl alcohol	-	-	-
Diphenylamine	EC50 = 1.5 mg/L 72 h	LC50 3.47 - 4.14 mg/L Pimephales promelas 96 h	EC50 1.69 - 2.46 mg/L 48 h

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12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available

Chemical name	Log Pow
White Mineral Oil	>6
Ethanol	-0.32
Benzaldehyde	1.48
Isopropyl alcohol	0.05
Diphenylamine	3.4

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

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.

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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) 3

International Inventories

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

15.2. Chemical safety assessment No information available

Section 16: OTHER INFORMATION

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

No information available

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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

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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.

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End of Safety Data Sheet