

SAFETY DATA SHEET

SDS: 4023

4023 H1 QUINPLEX® FOOD MACHINERY LUBRICANT

Issuing Date 04-24-2012

Revision Date 04-02-2020

Revision Number 3

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

1.1. Product Identifier

Product Name 4023 H1 QUINPLEX® FOOD MACHINERY 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
representative/downstream
user/distributor)**
HH Compliance
Rubicon Centre,
CIT Campus,
Bishopstown,
Cork,
Ireland
T12 Y275
+353-21-4868121

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)

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

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Spain	Poison Information Service (ES): +34 91 562 04 20
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)
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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
Zinc oxide	Present	1314-13-2	1 - 5	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available
Zinc stearate	Present	557-05-1	1 - 5	No data available	no data available
Butylated Hydroxy Toluene	Present	128-37-0	0.1 - 1	No data available	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 "4023" 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

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.
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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 (CO2), Foam, Dry chemical
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
Flash Point	215 °C / 419 °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	Use personal protective equipment.
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6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

Contain the spill. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. 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**

Wear personal protective equipment. .

Hygiene Measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

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 in a bunded area.

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
Zinc oxide 1314-13-2	-	-	TWA 5 mg/m ³ TWA 10 mg/m ³	TWA 2 mg/m ³ STEL 10 mg/m ³	-
Zinc stearate 557-05-1	-	STEL 20 mg/m ³ STEL 12 mg/m ³ TWA 10 mg/m ³ TWA 4 mg/m ³	TWA 10 mg/m ³	TWA 10 mg/m ³	-
Butylated Hydroxy Toluene 128-37-0	-	STEL 30 mg/m ³ TWA 10 mg/m ³	TWA 10 mg/m ³	TWA 10 mg/m ³	AGW 10 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
Zinc oxide 1314-13-2	-	TWA 2 mg/m ³ STEL 10 mg/m ³	-	TWA 2 mg/m ³ STEL 10 mg/m ³	TWA 4 mg/m ³
Zinc stearate 557-05-1	-	TWA 10 mg/m ³ C(A4)	-	TWA 10 mg/m ³	-
Butylated Hydroxy Toluene 128-37-0	-	TWA 2 mg/m ³ C(A4)	-	TWA 10 mg/m ³ STEL 20 mg/m ³	TWA 10 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
Zinc oxide 1314-13-2	TWA 5 mg/m ³	TWA 3 mg/m ³ STEL 3 mg/m ³	TWA 5 mg/m ³ STEL 10 mg/m ³	TWA 5 mg/m ³ STEL 10 mg/m ³	TWA 2 mg/m ³ STEL 10 mg/m ³
Zinc stearate 557-05-1	-	TWA 3 mg/m ³	-	-	TWA 10 mg/m ³ TWA 4 mg/m ³

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					STEL 12 mg/m ³ STEL 20 mg/m ³ STEL 30 mg/m ³
Butylated Hydroxy Toluene 128-37-0	TWA 10 mg/m ³	SS-C** TWA 10 mg/m ³ C1 STEL 40 mg/m ³	-	-	TWA 10 mg/m ³ STEL 30 mg/m ³
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
Zinc oxide 1314-13-2	STEL 20mg/m ³ TWA 5mg/m ³	TWA 10 mg/m ³ TWA 5 mg/m ³ STEL 10 mg/m ³	TWA 2 mg/m ³ Ceiling 5 mg/m ³	TWA 5 mg/m ³ STEL 10 mg/m ³	LLV 5 mg/m ³
Zinc stearate 557-05-1	-	TWA 10 mg/m ³	-	-	LLV 5 mg/m ³
Butylated Hydroxy Toluene 128-37-0	-	TWA 2 mg/m ³	-	TWA 10 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

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

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 Local authorities should be advised if significant spillages cannot be contained. Do not allow material to contaminate ground water system. Prevent product from entering drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state Paste
appearance white
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

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Flash Point	215 °C / 419 °F
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapor pressure	No data available
Vapor Density	< 1 (Air = 1)
Specific Gravity	0.95
Water solubility	negligible
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity, kinematic	not applicable
Explosive properties	No data available
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.

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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 98.1% 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)	12,929.70 mg/kg
ATEmix (dermal)	5,906.80 mg/kg

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, hydrotreated heavy paraffinic	> 15 g/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Disodium pyrophosphate	= 1800 mg/kg (Rat)	-	> 0.58 mg/L (Rat) 4 h
Zinc oxide	> 5000 mg/kg (Rat)	-	-
Zinc stearate	> 10 g/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	> 5000 mg/kg (Rat)	-	-
Butylated Hydroxy Toluene	> 2930 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
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 Harmful to aquatic life with long lasting effects Harmful to aquatic life

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Chemical name	Algae/aquatic plants	Toxicity to Fish	Toxicity to daphnia and other aquatic invertebrates
Butylated Hydroxy Toluene	EC50 = 6 mg/L 72 h EC50 > 0.42 mg/L 72 h	-	-
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

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Chemical name	Log Pow
Zinc stearate	1.2
Butylated Hydroxy Toluene	4.17
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 Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste.

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	Not determined
PICCS	Not determined
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

H301 - Toxic if swallowed
 H311 - Toxic in contact with skin
 H331 - Toxic if inhaled
 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**