

SAFETY DATA SHEET

SDS: 9102A

9102 SYNTEMP® SYNTHETIC LUBRICANT

Issuing Date 04-24-2012

Revision Date 10-10-2014

Revision Number 6

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name 9102 SYNTEMP® SYNTHETIC LUBRICANT

Other means of identification

UN-No 1950

Synonyms No information available

Recommended use of the chemical and restrictions on use

Identified uses Lubricant

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Manufacturer

Lubrication Engineers Inc.
300 Bailey Avenue
Fort Worth, TX 76107
USA
(817) 916-3200

Emergency Telephone Number

CHEMTREC: +1-703-527-3887 (INTERNATIONAL)
1-800-424-9300 (NORTH AMERICA)

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2. HAZARDS IDENTIFICATION**Classification****OSHA Regulatory Status**

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Flammable Aerosols	Category 1
Gases Under Pressure	Compressed Gas

Label Elements**Emergency Overview**

Signal Word
DANGER

Hazard Statements
Causes skin irritation

Causes serious eye irritation
May cause drowsiness or dizziness
May be fatal if swallowed and enters airways
Extremely flammable aerosol
Pressurized container: may burst if heated
Contains gas under pressure; may explode if heated

**appearance** green**Physical state** Aerosol**Odor** Hydrocarbon-like**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wear protective gloves/protective clothing/eye protection/face protection. Keep cool.

Response

Call a POISON CENTER or doctor/physician if you feel unwell.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

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Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

Fire

In case of fire: Use CO₂, dry chemical, or foam for extinction. Explosion risk in case of fire. Eliminate all ignition sources if safe to do so.

Spill

None.

Storage

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Protect from sunlight.

Disposal

Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Acetone	67-64-1	50 - 60
Petroleum gases, liquified, sweetened	68476-86-8	10 - 20

The producer of "9102" declares that it contains less than 3% DMSO extractable material by IP-346

4. FIRST AID MEASURES**First Aid Measures****General Advice**

Show this safety data sheet to the doctor in attendance. Immediate medical attention is not required.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use.

Inhalation

Move to fresh air. If symptoms persist, obtain medical attention.

Ingestion

Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required. May cause adverse kidney effects.

Protection of First-aiders

Use personal protective equipment.

Most important symptoms and effects, both acute and delayed**Symptoms**

None known.

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Indication of any immediate medical attention and special treatment needed**Notes to Physician** Treat symptomatically.**5. FIRE-FIGHTING MEASURES****Flash Point** -104.4 °C / -156 °F**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.**Specific Hazards Arising from the Chemical** Thermal decomposition can lead to release of irritating gases and vapors.**Explosion Data****Sensitivity to Mechanical Impact** Not impact sensitive.**Sensitivity to Static Discharge** May be ignited by friction, heat, sparks or flames.**Protective Equipment and Precautions for Firefighters** In the event of fire and/or explosion do not breathe fumes.**NFPA** Health hazard 2 Flammability 4 Stability 0**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal Precautions** Use personal protective equipment. Avoid contact with the skin and the eyes. Avoid contact with eyes. Avoid breathing vapors or mists.**Environmental Precautions****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.**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** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains.**7. HANDLING AND STORAGE****Precautions for safe handling****Advice on safe handling** Keep away from open flames, hot surfaces and sources of ignition. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.**Conditions for safe storage, including any incompatibilities**

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Technical measures/Storage conditions Keep tightly closed in a dry and cool place. Keep in properly labeled containers.

Incompatible products. Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetone 67-64-1	STEL: 750 ppm TWA: 500 ppm	TWA: 1000 ppm TWA: 2400 mg/m ³ (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m ³ (vacated) STEL: 2400 mg/m ³ (vacated) STEL: 1000 ppm	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m ³
Heptane (n-) 142-82-5	STEL: 500 ppm TWA: 400 ppm	TWA: 500 ppm TWA: 2000 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 1600 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 2000 mg/m ³	IDLH: 750 ppm Ceiling: 440 ppm Ceiling: 1800 mg/m ³ TWA: 85 ppm TWA: 350 mg/m ³
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m ³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³
Butane 106-97-8	TWA: 1000 ppm	(vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m ³	TWA: 800 ppm TWA: 1900 mg/m ³

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitting safety goggles.

Skin and Body Protection Long sleeved clothing. Protective gloves.

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.

Hygiene Measures When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state appearance	Aerosol green
Odor	Hydrocarbon-like
Odor threshold	No information available

Property**Property**

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pH	6 - 8
Melting point/freezing point	No data available
Boiling Point/Range	no data available
Flash Point	-104.4 °C / -156 °F
Vapor pressure	No data available
Vapor Density	< 1 (Air = 1)
Specific Gravity	0.779
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

10. STABILITY AND REACTIVITYreactivity No information availableChemical stability Stable under recommended storage conditions.Possibility of Hazardous Reactions None under normal processing.Conditions to Avoid Heat, flames and sparks.Incompatible Materials Strong oxidizing agents. Strong acids. Strong bases.Hazardous Decomposition Products Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)**11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure

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

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acetone 67-64-1	= 5800 mg/kg (Rat)	-	-

Information on toxicological effects**Symptoms** No information available.

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Delayed and immediate effects as well as chronic effects from short and long-term exposure

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Sensitization	No information available.
Mutagenic Effects	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
Target Organ Effects	Central nervous system (CNS), Respiratory system, Skin.

Numerical measures of toxicity - Product Information

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

ATEmix (oral)	4311 mg/kg
ATEmix (dermal)	3288 mg/kg
ATEmix (inhalation-gas)	294881 mg/L
ATEmix (inhalation-dust/mist)	100 mg/l

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
Acetone 67-64-1	-	LC50 4.74 - 6.33 mL/L Oncorhynchus mykiss 96 h LC50 6210 - 8120 mg/L Pimephales promelas 96 h LC50= 8300 mg/L Lepomis macrochirus 96 h	EC50 = 14500 mg/L 15 min	EC50 10294 - 17704 mg/L 48 h EC50 12600 - 12700 mg/L 48 h

Persistence and Degradability No information available.**Bioaccumulation** .**Mobility** The product is insoluble and floats on water.

Chemical Name	Log Pow
Acetone 67-64-1	-0.24
Heptane (n-) 142-82-5	4.66
Petroleum gases, liquified, sweetened 68476-86-8	<=2.8
Propane 74-98-6	2.3

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Butane 106-97-8	2.89
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Other Adverse Effects No information available**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Waste Disposal Methods** Should not be released into the environment. 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.**US EPA Waste Number** D001

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Acetone 67-64-1		Included in waste stream: F039		Ignitable waste

This product contains one or more substances that are listed with the State of California as a hazardous waste

Chemical Name	California Hazardous Waste Status
Acetone 67-64-1	Ignitable
Heptane (n-) 142-82-5	Toxic Ignitable
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts 68457-79-4	Toxic

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14. TRANSPORT INFORMATION**DOT**

UN-No	1950
Proper Shipping Name	Aerosols, flammable, (each not exceeding 1 L capacity)
Hazard Class	2.1
Special Provisions	49 CFR 173.115
Description	Compressed Gas.
Emergency Response Guide Number	126

IMDG

UN-No	1950
Proper Shipping Name	Aerosol
Hazard Class	2
Subsidiary Class	2.1
Special Provisions	SP63
Description	Limited quantity (LQ)

15. REGULATORY INFORMATION**International Inventories**

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

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

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

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Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Acetone - 67-64-1	67-64-1	50 - 60	
Petroleum distillates, hydrotreated light - 64742-47-8	64742-47-8	20 - 30	
Petroleum gases, liquified, sweetened - 68476-86-8	68476-86-8	10 - 20	
Petroleum distillates, solvent-refined heavy paraffinic - 64741-88-4	64741-88-4	10 - 20	
20131 Infineum V534 - 9999-99-9	9999-99-9	5 - 10	
Silicon dioxide, chemically prepared - 112945-52-5	112945-52-5	1 - 5	
Residual oils (petroleum), solvent refined - 64742-01-4	64742-01-4	1 - 5	
Lubricating oils (petroleum), hydrotreated spent - 64742-58-1	64742-58-1	0.1 - 1	
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts - 68457-79-4	68457-79-4	0.1 - 1	1.0
Amines, C12-14-alkyl, reaction products - 91745-46-9	91745-46-9	< 0.1	
Amines, C12-14-tert-alkyl, C8-20-alkyl phosphates - 92623-72-8	92623-72-8	< 0.1	
Alkenylamine - 112-90-3	112-90-3	< 0.1	
Polyisobutene - 9003-27-4	9003-27-4	< 0.1	
Ethene, polymer with 1-propene - 9010-79-1	9010-79-1	< 0.1	
Dilauryl Hydrogen Phosphite - 21302-09-0	21302-09-0	< 0.1	
21069 Ethanox 4782J - 9999-99-9	9999-99-9	< 0.1	
Petroleum naphtha, light aromatic - 64742-95-6	64742-95-6	< 0.1	
Petroleum distillates, hydrotreated heavy naphthenic - 64742-52-5	64742-52-5	< 0.1	

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts 68457-79-4		X		

CERCLA

This material does not contain any components with a CERCLA RQ.

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Acetone 67-64-1	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S. State Regulations

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California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Acetone 67-64-1	X	X	X
Heptane (n-) 142-82-5	X	X	X
Propane 74-98-6	X	X	X
Butane 106-97-8	X	X	X
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts 68457-79-4			X

16. OTHER INFORMATION

Issuing Date 04-24-2012
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Reason for revision Change to composition.

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.

End of Safety Data Sheet