

HELIX LINEAR - E-100 ACME Screw Lubricant

MSDS Number: 1255689

1 PRODUCT AND COMPANY IDENTIFICATION

Vendor

Company name: Helix Linear Technologies, Inc.
Address: 23200 Commerce Park, Beachwood, OH 44122
 Cleveland, OH 44125
Telephone: (855) 435-4958
E-mail: sales@helixlinear.com
Emergency phone number: CHEMTREC 1-800-424-9300

Product Name: HELIX - E-100 ACME Screw Lubricant
Revision Date: 9/15/2017
Version: 1
MSDS Number: 1255689
Common Name: Aerosol Lubricant
Product Use: Aerosol Lubricant

2 HAZARDS IDENTIFICATION

Route of Entry: Eyes - Yes Skin - Yes Inhalation - Yes Ingestion - Unlikely
Target Organs: Eyes; Respiratory system;
Inhalation: Minimal respiratory tract irritation may occur with exposure to a large amount of material.
Skin Contact: May cause an allergic skin reaction
Eye Contact: Minimal eye irritation may result from short-term contact with liquid, mist, and/or vapor
Ingestion: Not a normal route of exposure.

NFPA: Health = 1, Fire = 3, Reactivity = 0
 HMIS III: H1/F3/PH0



HMIS III	
HEALTH	1
FLAMMABILITY	3
PHYSICAL HAZARDS	0
PERSONAL PROTECTION B Safety Glasses, Gloves	

HELIX LINEAR - E-100 ACME Screw Lubricant

MSDS Number: 1255689

GHS Signal Word:
DANGER

GHS Hazard Pictograms:



GHS Classifications:

Physical, Flammable Aerosols, 1
Health, Acute toxicity, 5 Oral
Health, Skin corrosion/irritation, 3
Health, Specific target organ toxicity - Single exposure, 3
Physical, Flammable Liquids, 2
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Germ cell mutagenicity, 1
Health, Carcinogenicity, 2
Health, Reproductive toxicity, 2

GHS Phrases:

H222 - Extremely flammable aerosol
H229 - Pressurized container: may burst if heated
H303 - May be harmful if swallowed
H316 - Causes mild skin irritation
H335 - May cause respiratory irritation
H225 - Highly flammable liquid and vapor
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H340 - May cause genetic defects
H351 - Suspected of causing cancer
H361 - Suspected of damaging fertility or the unborn child

GHS Precautionary Statements:

P102 - Keep out of reach of children.
P103 - Read label before use.
P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
P243 - Take precautionary measures against static discharge.
P251 - Pressurized container: Do not pierce or burn, even after use.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P273 - Avoid release to the environment.
P281 - Use personal protective equipment as required.
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+352 - IF ON SKIN: Wash with soap and water.
P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.

P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.
P370+380+375 - In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
P412 - Do not expose to temperatures exceeding 50 °C/122 °F
P501 - Dispose of contents/container to approved waste disposal plant

CONDITIONS AGGRAVATED BY EXPOSURE: None known

LISTED CARCINOGENS: OSHA - Not listed IARC - Not listed NTP - Not listed

HELIX LINEAR - E-100 ACME Screw Lubricant

MSDS Number: 1255689

3

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas # | Percentage | Chemical Name

68476-86-8	20-40%	Petroleum gases, liquefied, sweetened
8042-47-5	10-25%	White mineral oil, petroleum
64742-49-0	10-20%	Naphtha, petroleum, hydrotreated light
64742-89-8	10-20%	Solvent naphtha, petroleum, light aliph.
142-82-5	15-30%	Heptane
110-82-7	<5%	Cyclohexane
110-54-3	<1%	n-Hexane

4

FIRST AID MEASURES

Inhalation: Move to fresh air and keep at rest. Call a physician if symptoms develop and persist.

Skin Contact: Wash with soap and water. If skin irritation persists, call a physician immediately. Remove contaminated clothing and wash before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion: Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low to avoid getting into the lungs. Call a poison control center if large amounts are ingested. Never give anything by mouth to an unconscious person.

5

FIRE FIGHTING MEASURES

Flammability: Extremely flammable aerosol

Flash Point: NA (aerosol)

Flash Point Method: NA

Burning Rate: Not available.

Autoignition Temp: Not available.

LEL: Not available.

UEL: Not available.

Means of Extinction:

Suitable Extinguishing Media: Powder, water spray, foam, carbon dioxide.

Unsuitable Extinguishing Media: Not available.

Products of Combustion: May include, and are not limited to: oxides of carbon.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: Containers may explode when heated. Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

6

ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

HELIX LINEAR - E-100 ACME Screw Lubricant

MSDS Number: 1255689

NOOK - E-100 ACME Screw Lubricant

MSDS Number: 1255689

Revision Date: 9/15/2017

Page 4 of 8

Ruptured cylinders may rocket.

Environmental Precautions: Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). This material is a water pollutant. Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Clean-Up: Vacuum or sweep material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.

7

HANDLING AND STORAGE

Handling Precautions:	HARMFUL IF INHALED OR SWALLOWED. VAPOR HARMFUL. EYE, SKIN AND RESPIRATORY IRRITANT. Contents under pressure. Keep out of reach of children. Read label cautions carefully. Follow label directions to avoid injury. Use with adequate ventilation. Do not use in confined areas. Keep away from heat, sparks or open flames. Wash hands thoroughly after each use. Do not smoke while using. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Do not puncture container. Vapors may cause flash fires.
Storage Requirements:	Keep out of reach of children. Do not store near heat, sparks, or open flames. Do not expose to temperatures above 120°F as container may vent, rupture or burst. Do not puncture or incinerate container. Store in accordance with NFPA 30B for LEVEL 3 AEROSOL.

8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Maintain adequate ventilation.
Personal Protective Equip:	HMIS PP, B Safety Glasses, Gloves

INGREDIENTS	EXPOSURE LIMITS		OTHER
	OSHA-PEL	ACGIH-TLV	
Petroleum gases, liquefied, sweetened	no data	1000ppm	
White mineral oil, petroleum	5 mg/m3	5mg/m3	NIOSH STEL10mg/m3 REL 5mg/m3
Naphtha, petroleum, hydrotreated light	500PPM	no data	
Solvent naphtha, petroleum, light aliph	500ppm	no data	
Heptane	500ppm	no data	
Cyclohexane	300 ppm	300ppm	
n-Hexane	500ppm	50 ppm	

HELIX LINEAR - E-100 ACME Screw Lubricant

MSDS Number: 1255689

9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Slight Amber	Odor:	Oily
Odor Threshold:	ND	Molecular Formula:	ND
Particle Size:	ND	Solubility:	Insoluble
Spec Grav./Density:	ND	Softening Point:	ND
Viscosity:	ND	Percent Volatile:	59.5%
Sat. Vap. Conc.:	ND	Heat Value:	ND
Boiling Point:	ND	Freezing/Melting Pt.:	ND
Flammability:	Extremely flammable (ignition distance)	Flash Point:	NA (aerosol)
Partition Coefficient:	ND	Octanol:	ND
Vapor Pressure:	ND	Vapor Density:	ND
pH:	N/A	VOC:	59.5%
Evap. Rate:	ND	Bulk Density:	ND
Molecular weight:	ND	Auto-Ignition Temp:	ND
Decomp Temp:	ND	UFL/LFL:	ND

10

STABILITY AND REACTIVITY

Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Heat, sparks, open flames and temperatures above 120°F
Materials to Avoid:	None known.
Hazardous Decomposition:	CO, CO ₂ , and hydrocarbons.
Hazardous Polymerization:	Will not occur.

11

TOXICOLOGICAL INFORMATION

No product toxicological information is available.

12

ECOLOGICAL INFORMATION

No product ecological information is available.

13

DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility. RCRA Haz No D001.

HELIX LINEAR - E-100 ACME Screw Lubricant

MSDS Number: 1255689

14

TRANSPORT INFORMATION

DOT

UN Number	UN1950
UN proper shipping name	Aerosols, flammable
Transport Hazard Class(es)	
Class	2.1
Subsidiary risk	---
Label(s)	2.1
Packing group	Not applicable

IATA

UN Number	UN1950
UN proper shipping name	Aerosols, flammable
Transport Hazard Class(es)	
Class	2.1
Subsidiary risk	---
Label(s)	2.1
Packing group	Not applicable
Environmental hazards	No
Other information	
Passenger and cargo aircraft	Allowed
Cargo aircraft only	Allowed

IMDG

UN Number	UN1950
UN proper shipping name	Aerosols, flammable
Transport Hazard Class(es)	
Class	2.1
Subsidiary risk	---
Label(s)	2.1
Packing group	Not applicable
Environmental hazards	No

HELIX LINEAR - E-100 ACME Screw Lubricant

MSDS Number: 1255689

15

REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*Petroleum gases, liquefied, sweetened (68476868 **20-40%**) TSCA

*White mineral oil, petroleum (8042475 **10-25%**) TSCA

*Naphtha, petroleum, hydrotreated light (64742490 **10-20%**) TSCA

*Solvent naphtha, petroleum, light aliph. (64742898 **10-20%**) TSCA

*Heptane (142825 **15-30%**) MASS, OSHAWAC, PA, TSCA, TXAIR

*Cyclohexane (110827 **<5%**) CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

*n-Hexane (110543 **<1%**) CERCLA, HAP, MASS, OSHAWAC, PA, SARA313, TSCA, TXAIR

REGULATORY KEY DESCRIPTION

MASS = MA Massachusetts Hazardous Substances List

NJHS = NJ Right-to-Know Hazardous Substances

OSHA = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TSCA = Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level

TXHWL = TX Hazardous Waste List

CERCLA = Superfund clean up substance

CSWHS = Clean Water Act Hazardous substances

EPCRAWPC = EPCRA Water Priority Chemicals

HAP = Hazardous Air Pollutants

SARA313 = SARA 313 Title III Toxic Chemicals

TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)

Proposition 65 - California Safe Drinking Water and Toxic Enforcement Act of 1986

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

HELIX LINEAR - E-100 ACME Screw Lubricant

MSDS Number: 1255689

16

OTHER INFORMATION

Author: DP

Publication Date: 9/15/2017

Revision No. 1

Disclaimer:

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).