1. Identification

Product identifier
HELIX - APG

Other means of identification

Product Code
HELIX - APG

Recommended use
Lubricating Grease

Recommended restrictions
None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name: Helix Linear Technologies, Inc.
Address: 23200 Commerce Park, Beachwood, OH 44122

Telephone: (855) 435-4958
E-mail: sales@helixlinear.com
Emergency phone number: CHEMTREC 1-800-424-9300

2. Hazard(s) identification

Physical hazards
Not classified.

Health hazards
Acute toxicity, dermal Category 4

OSHA defined hazards
Not classified.

Label elements

Signal word
Warning

Hazard statement
Harmful in contact with skin.

Prevention
Wear protective gloves/protective clothing.

Response
If on skin: Wash with plenty of water. Call a poison center/doctor if you feel unwell. Specific treatment (see this label). Take off contaminated clothing and wash before reuse.

Storage
Store away from incompatible materials.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)
Not classified.

Supplemental information
99.5% of the mixture consists of component(s) of unknown acute dermal toxicity.

3. Composition/information on ingredients

Mixtures

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation
If symptoms develop, remove affected person from source of exposure into fresh air. Get immediate medical attention.

Skin contact
Wash off with soap and water. Wash off with soap and plenty of water. Call a POISON CENTER or doctor/physician if you feel unwell. Get medical attention if symptoms occur. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.

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

Ingestion
If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Never give anything by mouth to a victim who is unconscious or is having convulsions.
Most important symptoms/effects, acute and delayed
Indication of immediate medical attention and special treatment needed
General information

Direct contact with eyes may cause temporary irritation.
Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions
Move containers from fire area if you can do it without risk. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Specific methods
Move containers from fire area if you can do so without risk.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS. Observe precautions from other sections.

Methods and materials for containment and cleaning up
Soak up with inert absorbent material.
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Clean contaminated surface thoroughly. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS. Clean up spills immediately, observing precautions in Protective Equipment section. Sweep up and shovel into suitable containers for disposal.

Environmental precautions
Avoid discharge into drains, water courses or onto the ground. Prevent entry into waterways, sewers, basements or confined areas.

7. Handling and storage

Precautions for safe handling
Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Avoid prolonged or repeated skin contact with this material. Do not handle or store near an open flame, heat or other sources of ignition. Avoid breathing gas/vapors/mist/fumes. Do not take internally. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash thoroughly after handling. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities
Keep away from heat and sources of ignition. Store in a closed container away from incompatible materials. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the MSDS).

8. Exposure controls/personal protection

Occupational exposure limits
No exposure limits noted for ingredient(s).

Biological limit values
No biological exposure limits noted for the ingredient(s).

Exposure guidelines
This material does not have established exposure limits. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter

Appropriate engineering controls
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear eye/face protection. Wear safety glasses; chemical goggles (if splashing is possible).

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Hand protection
Wear protective gloves.

Other
Wear suitable protective clothing. Wear nitrile, neoprene, PVC or viton gloves.

Respiratory protection
An air purifying respirator with an organic vapor cartridge may be used under certain circumstances where airborne concentrations are expected to exceed exposure limits, or if irritation or symptoms are experienced. Respiratory protection must be provided in accordance with 29 CFR 1910.134. No personal respiratory protective equipment normally required.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Wash hands thoroughly after handling.

9. Physical and chemical properties

Appearance

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid. Semi-solid</td>
</tr>
<tr>
<td>Color</td>
<td>Tan, Smooth</td>
</tr>
</tbody>
</table>

Odor
Slight

Odor threshold
Not available.

pH
Not available.

Melting point/freezing point
Not available.

Initial boiling point and boiling range
Not available.

Flash point
455.0 °F (235.0 °C) ASTM D-92

Evaporation rate
Not available.

Flammability (solid, gas)
Not available.

Upper/lower flammability or explosive limits

| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |

Vapor pressure
Not available.

Vapor density
Not available.

Relative density
Not available.

Solubility(ies)
Not available.

Partition coefficient (n-octanol/water)
Not available.

Auto-ignition temperature
Not available.

Decomposition temperature
Not available.

Viscosity
Not available.

Other information

| Density | 0.88 g/cm³ |
| Flash point class | Combustible III B |
| Kinematic viscosity | 30.2 cSt |
| Kinematic viscosity temperature | 104 °F (40 °C) |
| Pour point | -81.4 °F (-63 °C) |
| Shelf life | 4 years |

10. Stability and reactivity

Reactivity
None known.

Chemical stability
Material is stable under normal conditions. Stable.
### Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

### Conditions to avoid
Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

### Incompatible materials
Strong acids, alkalies and oxidizing agents.

### Hazardous decomposition products
Carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

### 11. Toxicological information

#### Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Route</th>
<th>Health Hazard Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>Knowledge about health hazard is incomplete.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Knowledge about health hazard is incomplete.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Direct contact with eyes may cause temporary irritation.</td>
</tr>
</tbody>
</table>

#### Symptoms related to the physical, chemical and toxicological characteristics
Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Classification not possible.</td>
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<tr>
<td>Serious eye damage/eye irritation</td>
<td>Direct contact with eyes may cause temporary irritation.</td>
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<tr>
<td>Respiratory sensitization</td>
<td>Knowledge about sensitization hazard is incomplete.</td>
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<tr>
<td>Skin sensitization</td>
<td>Knowledge about sensitization hazard is incomplete.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Knowledge about mutagenicity is incomplete.</td>
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<tr>
<td>Carcinogenicity</td>
<td>This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. This product does not contain any carcinogens or potential carcinogens as listed by ACGIH and IARC. This product does not contain any carcinogens or potential carcinogens as listed by IARC. This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC and NTP.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Knowledge about health hazard is incomplete.</td>
</tr>
<tr>
<td>Specific target organ toxicity</td>
<td>Classification not possible.</td>
</tr>
<tr>
<td>- single exposure</td>
<td></td>
</tr>
<tr>
<td>- repeated exposure</td>
<td></td>
</tr>
</tbody>
</table>

### 12. Ecological information

#### Ecotoxicity
This material is not expected to be harmful to aquatic life.

#### Persistence and degradability
No data is available on the degradability of this product.

#### Bioaccumulative potential
No data available.

#### Mobility in soil
No data available.

#### Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

#### Disposal instructions
Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Contract with a disposal operator licensed by the Law on Disposal and Cleaning. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Local disposal regulations
Dispose in accordance with all applicable regulations.

#### Hazardous waste code
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

#### Waste from residues / unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

#### Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
14. Transport information

DOT
Not regulated as a hazardous material by DOT.

IATA
Not regulated as a dangerous good.

IMDG
Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
This substance/mixture is not intended to be transported in bulk.

15. Regulatory information

US federal regulations
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

SARA 304 Emergency release notification
Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance
No

SARA 311/312 Hazardous chemical
No

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

Food and Drug Administration (FDA)
Not regulated.

US state regulations
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List
Not regulated.

US. New Jersey Worker and Community Right-to-Know Act
Not regulated.

US. Pennsylvania RTK - Hazardous Substances
Not regulated.

US. Rhode Island RTK
Not regulated.

US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region Inventory name On inventory (yes/no)*
Australia Australian Inventory of Chemical Substances (AICS) Yes

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<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
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<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
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<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
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<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
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<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
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<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
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<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
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<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
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<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
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</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
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</tr>
<tr>
<td>Taiwan</td>
<td>Taiwan Toxic Chemicals Substances Control Act</td>
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</tbody>
</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

<table>
<thead>
<tr>
<th>Issue date</th>
<th>November-25-2013</th>
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<tr>
<td>Revision date</td>
<td>August-08-2015</td>
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<td>Flammability: 1</td>
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<td></td>
<td>Physical hazard: 0</td>
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<tr>
<td>NFPA ratings</td>
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<tr>
<td></td>
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<tr>
<td>References</td>
<td>ACGIH</td>
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<tr>
<td></td>
<td>EPA: AQUIRE database</td>
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<tr>
<td></td>
<td>NLM: Hazardous Substances Data Base</td>
</tr>
<tr>
<td></td>
<td>US. IARC Monographs on Occupational Exposures to Chemical Agents</td>
</tr>
<tr>
<td>Disclaimer</td>
<td>The information provided in this Safety Data Sheet is correct to the best of our</td>
</tr>
<tr>
<td></td>
<td>knowledge, information and belief at the date of its publication. The information</td>
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<td>given is designed only as a guidance for safe handling, use, processing, storage,</td>
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<td></td>
<td>transportation, disposal and release. Nye Lubricants, Inc. makes no warranty with</td>
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<td>respect thereto and disclaims all liability with respect thereon. The information</td>
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<td>in the sheet was written based on the best knowledge and experience currently</td>
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