E-Shift

SAFETY DATA SHEET
OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier
- Chemical Name: Not applicable.
- CAS No.: Mixture
- Trade Name: E-Shift
- Product Code: None

Relevant identified uses of the substance or mixture and uses advised against
- Identified Use(s): Lubricant
- Uses Advised Against: None

Company Identification
- Finish Line Technologies, Inc.
  50 Wireless Blvd.
  Hauppauge, NY 11788

Telephone
- (631) 666-7300

Emergency telephone number
- Medical Emergency: PROSAR 24 hr: 1-800-217-5157 / 1-651-523-0304
- Transportation Emergency: CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture
- OSHA HCS (29 CFR 1910.1200)
  Flam. Aerosol 1
  Asp. Tox. 1, Skin Irrit. 2, STOT SE 3

Label elements
- Hazard Symbol

Hazard Statement(s)
- Extremely flammable aerosol.
- Pressurised container: May burst if heated.
- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- May cause drowsiness or dizziness.

Precautionary Statement(s)
- Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- Do not spray on an open flame or other ignition source.
- Do not pierce or burn, even after use.
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
- Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.
- Keep out of reach of children.
Other hazards

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Ingredient(s)</th>
<th>% wt.</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptane, branched, cyclic and linear</td>
<td>60-80</td>
<td>426260-76-6</td>
</tr>
<tr>
<td>Acetone</td>
<td>10-20</td>
<td>67-64-1</td>
</tr>
<tr>
<td>1,1-Difluoroethane</td>
<td>10-15</td>
<td>75-37-6</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>4-8</td>
<td>67-63-0</td>
</tr>
</tbody>
</table>

Additional Information - None

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation: Move person to fresh air. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention.

Skin Contact: Wash affected skin with soap and water. If symptoms develop, obtain medical attention.

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms occur obtain medical attention.

Ingestion: Do not give anything by mouth to an unconscious person. Seek medical treatment.

Most important symptoms and effects, both acute and delayed: Will cause skin irritation. Vapors may cause drowsiness and dizziness.

Indication of any immediate medical attention and special treatment needed: None

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media: Extinguish with carbon dioxide, dry chemical, foam or water spray.

-Unsafe Extinguishing Media: Do not use water jet.

Special hazards arising from the substance or mixture: Highly flammable vapor (flash point below 23°C).

Advice for fire-fighters: A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.
SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid contact with skin and eyes. Use product in a well-ventilated area only. Avoid breathing spray.

Environmental precautions
Prevent substance entering sewers.

Methods and material for containment and cleaning up
Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

Reference to other sections
None

Additional Information
None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid contact with skin and eyes. Use product in a well-ventilated area only.

Conditions for safe storage, including any incompatibilities
- Storage temperature
  Keep container in a well-ventilated place. Store at temperatures not exceeding 38°/100°F.
- Incompatible materials
  None

Specific end use(s)
Lubricant

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>SUBSTANCE.</th>
<th>CAS No.</th>
<th>(8hr TWA)</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>PEL (OSHA)</td>
<td>TLV (ACGIH)</td>
</tr>
<tr>
<td>Heptane, branched, cyclic and linear</td>
<td>426260-76-6</td>
<td>500 ppm*</td>
<td>1500 mg/m³</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>1000 ppm</td>
<td>500 ppm</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>400 ppm</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

*Assure minimum oxygen content of work atmosphere.

Recommended monitoring method
NIOSH 1500 (hydrocarbons, B.P. 36 - 216 °C)
NIOSH 1400 (alcohols I)

Exposure controls
Appropriate engineering controls
Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.

Personal protection equipment

Eye/face protection
Wear chemical resistant protective eye glasses.

Skin protection (Hand protection/ Other)
Wear suitable gloves if prolonged skin contact is likely (Nitrile rubber)
Respiratory protection

Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Not normally required. Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls

None known

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor Threshold (ppm)</td>
<td>Mild isopropanol odor</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point (°C) / Freezing Point (°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point / boiling range (°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Extremely flammable</td>
</tr>
<tr>
<td>Explosive Limit Ranges</td>
<td>4.3-17.4% (1,1-difluoroethane)</td>
</tr>
<tr>
<td>Vapour pressure (Pascal)</td>
<td>514,624 (25°C) (1,1-difluoroethane)</td>
</tr>
<tr>
<td>Vapour Density (Air=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Density (g/ml)</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (Water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (Other)</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition Coefficient (n-Octanol/water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto Ignition Point (°C)</td>
<td>440°C (1,1-difluoroethane)</td>
</tr>
<tr>
<td>Decomposition Temperature (°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>&lt;25</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not oxidizing.</td>
</tr>
<tr>
<td>Other information</td>
<td>Not available</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>Stable under normal conditions.</td>
</tr>
<tr>
<td>Chemical stability</td>
<td>Stable.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>None anticipated.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Avoid contact with heat and ignition sources.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>Strong Acids.</td>
</tr>
<tr>
<td>Hazardous decomposition product(s)</td>
<td>None known</td>
</tr>
</tbody>
</table>

SECTION 11: TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure routes</td>
<td>Inhalation, Skin Contact, Eye Contact</td>
</tr>
<tr>
<td>Substances in preparations / mixtures</td>
<td>Heptane, branched, cyclic and linear (CAS# 426260-76-6) - By analogy with similar materials:</td>
</tr>
<tr>
<td>Acute toxicity</td>
<td>Oral: LD50 &gt;5 g/kg-bw</td>
</tr>
<tr>
<td></td>
<td>Dermal: LD50 &gt;2 g/kg-bw</td>
</tr>
<tr>
<td></td>
<td>Inhalation: LC50 = 65 - 103 mg/L (Vapor), 4-hr. rat</td>
</tr>
<tr>
<td></td>
<td>May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td></td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
</tbody>
</table>
**Irritation/Corrosivity**
Causes skin irritation. Repeated exposure may cause skin dryness or cracking. May cause eye irritation.

**Sensitization**
It is not a skin sensitizer.

**Repeated dose toxicity**
NOAEC: 12350 mg/m³ (2 yr, inhal., rat, Systemic effects)
LOAEC: 1650 mg/m³ (2 hr, inhal., rat, CNS effects)
May cause drowsiness or dizziness.

**Carcinogenicity**
No data. It is unlikely to present a carcinogenic hazard to man.

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
</table>

**Mutagenicity**
There is no evidence of mutagenic potential.

**Toxicity for reproduction**
No information available

**Acetone (CAS# 67-64-1):**

**Acute toxicity**
Oral LD₅₀ 5800 mg/kg (rat)

**Irritation/Corrosivity**
Irritating to eyes.

**Sensitization**
It is not a skin sensitizer.

**Repeated dose toxicity**
No data.

**Carcinogenicity**
No data. It is unlikely to present a carcinogenic hazard to man.

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
</table>

**Mutagenicity**
There is no evidence of mutagenic potential.

**Toxicity for reproduction**
No information available

**Isopropanol (CAS# 67-63-0):**

**Acute toxicity**
Oral: LD₅₀ = 5.84 g/kg (rat)
Inhalation: LC₅₀ > 1000 ppm (rat) 6 hour(s)
Dermal: LD₅₀ = 16.4 ml/kg (rabbit) 24 hour(s)
May cause drowsiness or dizziness.

**Irritation/Corrosivity**
Irritating to eyes.

**Sensitization**
It is not a skin sensitizer.

**Repeated dose toxicity**
NOAEL = 5,000 ppm (Inhalation)
May cause drowsiness or dizziness.

**Carcinogenicity**
It is unlikely to present a carcinogenic hazard to man.

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
</table>

**Mutagenicity**
There is no evidence of mutagenic potential.

**Toxicity for reproduction**
No information available

**SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity - Substances in preparations / mixtures**

Heptane, branched, cyclic and linear (CAS# 426260-76-6) - By analogy with similar materials:

**Short term**
LL₅₀ (96 hour): >13.4 mg/L (*Oncorhynchus mykiss*)
EL₅₀ (48 hour): 3 mg/l (*Daphnia magna, mobility*)
EC₅₀ (96 hour): 13 mg/l (*Pseudokirchnerella subcapitata*)
Long Term

NOELR (28 days) 1.5 mg/l (Fish) QSAR
LOEC (21 days): 0.32 mg/l (Daphnia magna)
NOEL (96 hour) 6.3 mg/l (Algae)

Isopropanol (CAS# 67-63-0):

Short term
LC50 (96 hour): 10,000 mg/l (Fathead minnow (Pimephales promelas))
LC50 24 hour(s): >10,000 mg/l (Daphnia magna)

Long Term

Persistence and degradability
Readily biodegradable.

Bioaccumulative potential
The product has low potential for bioaccumulation.

Mobility in soil
The product is predicted to have high mobility in soil.

Results of PBT and vPvB assessment
Not classified as PBT or vPvB.

Other adverse effects
None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods
Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Land transport (U.S. DOT)</th>
<th>Sea transport (IMDG)</th>
<th>Air transport (ICAO/IATA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>1950</td>
<td>1950</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Aerosols</td>
<td>Aerosols</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>2.1</td>
<td>2</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>None assigned</td>
<td>None assigned</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None assigned</td>
<td>None assigned</td>
</tr>
</tbody>
</table>

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
<th>RQ (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>10 - 20</td>
<td>5000</td>
</tr>
</tbody>
</table>

SARA 311/312 - Hazard Categories:
☑ Fire ☐ Sudden Release ☐ Reactivity ☑ Immediate (acute) ☐ Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
<th>TPQ (pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>
California Proposition 65 List:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Type of Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.
Date of preparation: December 9, 2013

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