



# 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
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Telephone	(631) 666-7300
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E-Mail (competent person)

#### Emergency telephone number

Emergency Phone No.

**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



**DANGER**

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

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

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.

-Unsuitable 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

<b>Personal precautions, protective equipment and emergency procedures</b>	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.
<b>Environmental precautions</b>	Prevent substance entering sewers.
<b>Methods and material for containment and cleaning up</b>	Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.
<b>Reference to other sections</b>	None
<b>Additional Information</b>	None

## SECTION 7: HANDLING AND STORAGE



<b>Precautions for safe handling</b>	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.
<b>Conditions for safe storage, including any incompatibilities</b>	
-Storage temperature	Keep container in a well-ventilated place. Store at temperatures not exceeding 38°/100°F.
-Incompatible materials	None
<b>Specific end use(s)</b>	Lubricant

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		STEL		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Heptane, branched, cyclic and linear	426260-76-6	500 ppm*	1500 mg/m <sup>3</sup>	-----	-----	*n-heptane
Acetone	67-64-1	1000 ppm	500 ppm	-----	750 ppm	-----
Isopropanol	67-63-0	400 ppm	200 ppm	-----	400 ppm	-----

\*Assure minimum oxygen content of work atmosphere.

<b>Recommended monitoring method</b>	NIOSH 1500 (hydrocarbons, B.P. 36 - 216 °C) NIOSH 1400 (alcohols I)
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.
<b>Personal protection equipment</b>	
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)
	



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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

#### Information on basic physical and chemical properties

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

### SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	Avoid contact with heat and ignition sources.
Incompatible materials	Strong Acids.
Hazardous decomposition product(s)	None known

### SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

#### Substances in preparations / mixtures

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

Acute toxicity	Oral: LD50 >5 g/kg-bw Dermal: LD50 >2 g/kg-bw Inhalation: LC50 = 65 - 103 mg/L (Vapor), 4-hr. rat May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.
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**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/m<sup>3</sup> (2 yr, inhal., rat, Systemic effects)  
LOAEC: 1650 mg/m<sup>3</sup> (2 hr, inhal., rat, CNS effects)  
May cause drowsiness or dizziness.

**Carcinogenicity**

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

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

**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.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

**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.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

**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*)



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Long Term	NOELR (28 days) 1.5 mg/l ( <i>Fish</i> ) QSAR LOEC (21 days): 0.32 mg/l ( <i>Daphnia magna</i> ) NOEL (96 hour) 6.3 mg/l ( <i>Algae</i> )
<u>Isopropanol (CAS# 67-63-0):</u>	
Short term	LC50 (96 hour): 10,000 mg/l (Fathead minnow ( <i>Pimephales promelas</i> )) LC50 24hour(s): >10,000 mg/l ( <i>Daphnia magna</i> )
Long Term	NOEC: 3.37 µmol/l ( <i>Daphnia magna</i> ) (Growth rate)
<b>Persistence and degradability</b>	Readily biodegradable.
<b>Bioaccumulative potential</b>	The product has low potential for bioaccumulation.
<b>Mobility in soil</b>	The product is predicted to have high mobility in soil.
<b>Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>Other adverse effects</b>	None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
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## SECTION 14: TRANSPORT INFORMATION

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

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):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Acetone	67-64-1	10 - 20	5000

SARA 311/312 - Hazard Categories:

Fire    Sudden Release    Reactivity    Immediate (acute)    Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	----	----

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

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----



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### California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
None	----	----

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

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