

# TECH LINE Coatings

## SAFETY DATA SHEET

### Section 1 – Identification

**Product Identifier :** Release Coating FLO923

**Part Number:** FLO923

**Recommended Use:** Thin Thermal Conducting Coating

**Restrictions on Use:**

**Manufacturer / Supplier:**

Tech Line Coatings, Inc  
26844 ADAMS AVE.  
MURRIETA, CA 92562  
USA  
Phone/Fax 1-865-773-0597  
www.techlinecoatings.com

**Keep out of reach of children.  
For Industrial Use Only  
Not recommended for use on Medical equipment.  
Not recommended for use on Aviation equipment.**

**Emergency Phone:** N. America +1-800-535-5053  
Intl. +1-352-323-3500

### Section 2 – Hazards Identification

**Signal Word:** Danger

**Symbols:**



**Hazard Statements:**

Highly Flammable Liquid and Vapor  
Harmful if Swallowed  
Harmful if Inhaled  
Causes Skin Irritation  
Causes Serious Eye Irritation  
Suspected of causing cancer  
Suspected of damaging fertility or the unborn child – oral.  
Causes damage to organs (Eyes, Kidney, Liver, Central Nervous System, Heart)  
May cause damage to organs (Pancreas, Spleen)  
May cause damage to organs (Kidney, Liver, Central Nervous System, Pancreas, Spleen) through prolonged or repeated exposure.

**GHS Classification:**

**Category**

Flammable Liquid	2
Acute Toxicity Oral	3
Acute Toxicity Dermal	3
Acute Toxicity Inhalation	3
Skin Irritation	2
Eye Irritation	2A
Carcinogenicity	2
Reproductive Toxicity	2
Specific Target Organ Toxicity Single Exposure	2
Specific Target Organ Toxicity Single Exposure	2
Specific Target Organ Toxicity Repeated or Prolonged Exposure	2

**Precautionary Statements:**

Keep away from heat / sparks / open flames / hot surfaces. - No Smoking. Ground / bond container and receiving equipment. Use explosion proof electrical / ventilating / lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

In case of fire use alcohol-resistant foam, dry chemical or carbon dioxide

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Wear protective gloves / protective clothing (chemical proof). Wear eye protection and face protection. Wash hands, face

and any exposed skin thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat drink or smoke when using this product. Do not breath fumes / mist / vapors / spray. Use only outdoors or in a well ventilated area.

If swallowed: immediately call a poison center / doctor for medical advice. Rinse mouth with water.

If on skin: wash with plenty of water. Call a poison center / doctor if you feel unwell or if irritation occurs. Immediately take off all contaminated clothing and wash it before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center / doctor for medical advice.

If in eyes: Rinse cautiously in water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advise / attention.

If exposed or concerned: Get medical advise / attention, from a poison center / doctor.

Dispose of Contents / container in accordance with regulations in your area. See section 13 for additional information.

### **Section 3 – Composition / Information On Ingredients**

<b>Component Name</b>	<b>Common Name / Synonyms</b>	<b>CAS#</b>	<b>% of Weight</b>
Methyl Ethyl Ketone	MEK	78-93-3	< 35%
Ethanol	Ethyl Alcohol	64-17-5	< 40%
Phenol	Hydroxybenzene	108-95-2	< 3%
Dimethyl Phthalte		11/03/31	< 2.5%
Methanol	Methyl Alcohol	67-56-1	< 5%
PTFE		9002-84-0	< 1%
Formaldehyde		50-00-0	< 2%

### **Section 4 – First Aid Measures**

#### **General advise:**

- Consult a physician. Show this Safety Data Sheet to the doctor in attendance. Move out of dangerous area.

#### **After EYE Contact:**

- Immediately irrigate with plenty of water for 15 minutes. Obtain medical attention if irritation persists.

#### **After SKIN Contact:**

- Remove contaminated clothing without delay. Flush skin thoroughly with water. Do not reuse clothing without laundering.

#### **After INHALATION:**

- Administer oxygen if there is difficulty in breathing. Obtain medical attention immediately if necessary.

#### **After SWALLOWING:**

- Call a physician immediately, ONLY induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

See section 11 for additional information

Notes to Physician: Treat symptomatically.

### **Section 5 – Fire Fighting Measures**

#### **Extinguishing Media:**

- Water spray, alcohol resistant foam, co2, dry chemical, dry sand. Cool closed containers exposed to fire with water spray.

#### **Special Fire Fighting Procedures:**

- Use full protective equipment, including self contained breathing apparatus

#### **Unusual Fire And Explosion Hazards:**

- During emergency conditions, overexposure to decomposition products may cause a health hazard. Hazardous polymerization may take place if exposed to fire conditions. Water runoff can cause environmental damage, dike and collect water used to fight fire.

### Specific Hazards Arising from the Chemical:

- Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.
- Containers may explode when heated.

### Section 6 – Accidental Release Measures

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#### Methods for Containment and Clean Up

- Turn off all sources of heat or ignition.
- Soak up with inert absorbent material.
- Keep in suitable, marked and closed containers for disposal.
- Use spark-proof tools and explosion-proof equipment.
- Remove sources of ignition.
- Warn other workers of spill.
- Wear protective equipment
  - NIOSH Approved Respirator
  - Gloves
  - Safety Glasses
- Stop leak if you can do so without risk.
- Do not allow material to be released into the environment.
- Retain all contaminated water for removal and treatment. DO NOT flush to sewer.

#### Additional Information:

- See Section 7 for safe handling information.
- See Section 8 for PPE information
- See Section 13 for disposal information

### Section 7 – Handling And Storage

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#### Handling:

Do not breathe vapors or mists from spraying. Avoid contact with skin and eyes. Use with adequate ventilation to maintain exposure levels below established exposure limits. Wear personal protective equipment. If required wear an appropriate NIOSH approved respirator with paint prefilter. Use explosion-proof equipment. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

#### Storage:

Store in area suitable for flammable liquids. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Protect from oxidizers, inorganic acids, aldehydes, and isocyanates.

### SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

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Component	ACGIH TLV	OSHA PEL	NIOSH REL
Methyl Ethyl Ketone	200 PPM	200 PPM	200 PPM
Ethanol	1000 PPM	1000 PPM	1000 PPM
Phenol	5 PPM (SKIN)	5 PPM (SKIN)	5 PPM (SKIN)
Dimethyl Phthalate	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	No data available
Methanol	200 PPM	200 PPM	200 PPM
C.I. PIGMENT BLACK 7	3.5 mg/m <sup>3</sup> TWA	3.5 mg/m <sup>3</sup> TWA	No data available
Formaldehyde	CEIL 0.3 ppm	TWA 0.75 ppm STEL 2 ppm	0.1 ppm

#### Engineering Controls:

Exhaust ventilation.  
Showers  
Eyewash stations  
Use in a well-ventilated area.

**Respiratory Protection:** Use NIOSH approved respirator if TWA/TLV limits are exceeded  
**Protective Gloves:** CHEMICAL RESISTANT  
**Eye Protection:** SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES  
**Other Protective Equipment:** WEAR PROTECTIVE CLOTHING, CHEMICAL RESISTANT OR OTHER PROTECTIVE OUTERWEAR, AVOID CONTACT WITH SKIN OR EYES  
**Ventilation:** Local Exhaust: Use To Maintain Below TWA Limits  
**Mechanical:** Use Non-Sparking Equipment  
**Work / Hygienic Practices:** wash thoroughly after handling product and before eating, drinking or smoking

## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

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Form :	liquid
Color :	Black
Odor :	Strong Alcohol/Solvent Smell
Odor Threshold:	Not Established
pH :	Not Established
Melting point / Freezing point:	Not Established
Initial boiling point :	131 – 280° F
Flash point :	> 16° F
Evaporation Rate:	Not Established
Upper/lower flammability or explosive limits:	Not Established
Vapor pressure	Not Established
Vapor density	Not Established
Relative density	7.5 lbs per gallon
Solubility(ies)	Water: poor
Partition coefficient: n-octanol/water	Not Established
Auto-ignition temperature	Not Established
Decomposition temperature	Not Established
Viscosity	Not Established
Total VOC	735 grams/liter

## **SECTION 10 – STABILITY AND REACTIVITY**

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**Stability:** STABLE

**Possibility of hazardous reactions:** Hazardous Polymerization: Will not occur.

**Conditions to avoid:** Avoid storage of open containers at elevated temperatures.

**Incompatible Materials:** oxidizers, inorganic acids, aldehydes, and isocyanates

**Hazardous Decomposition Products:** Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silicon dioxide. Carbon oxides. Formaldehyde.

## **SECTION 11 – TOXICOLOGICAL INFORMATION**

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### **Potential Health Effects**

<b>Inhalation</b>	Harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin</b>	Harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.

### Acute Toxicity

Methyl Ethyl Ketone	Oral LD50	LD50 Oral - rat - 2,737 mg/kg
	Inhalation LC50	LC50 Inhalation - mouse - 4 h - 32,000 mg/m <sup>3</sup> LC50 Inhalation - Mammal - 38,000 mg/m <sup>3</sup>
	Dermal LD50	LD50 Dermal - rabbit - 6,480 mg/kg
Ethanol	Oral LD50	LD50 Oral - rat - 7,060 mg/kg Remarks: Lungs, Thorax, or Respiration:Other changes.
	Inhalation LC50	LC50 Inhalation - rat - 10 h - 20000 ppm
	Dermal LD50	no data available
Phenol	Oral LD50	LC50 Inhalation - Rat - 4-hr 4,470 ppm (33.0 mg/l) LD50 Oral - rat - 317.0 mg/kg Remarks: Behavioral:Convulsions or effect on seizure threshold. LD50 Oral - rat - 410.0 - 650.0 mg/kg
	Inhalation LC50	LC50 Inhalation - rat - 8 h - 900 mg/m <sup>3</sup>
	Dermal LD50	LD50 Dermal - rabbit - 630.0 mg/kg
Methanol	Oral LD50	LDLO Oral - Human - 143 mg/kg Remarks: Lungs, Thorax, or Respiration:Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. LD50 Oral - rat - 1,187 - 2,769 mg/kg
	Inhalation LC50	LC50 Inhalation - rat - 4 h - 128.2 mg/l LC50 Inhalation - rat - 6 h - 87.6 mg/l
	Dermal LD50	LD50 Dermal - rabbit - 17,100 mg/kg
C.I. PIGMENT BLACK 7	Oral LD50	Oral LD50 - Rat - > 15400 mg/kg
	Inhalation LC50	No data available
	Dermal LD50	Dermal LD50 - Rabbit - > 3 g/kg
Formaldehyde	Oral LD50	No data available
	Inhalation LC50	No data available
	Dermal LD50	No data available

### Skin Corrosion/Irritation

Methyl Ethyl Ketone	Skin - rabbit - Skin irritation - 24 h
Ethanol	Skin - rabbit - Irritating to skin. - 24 h
Isopropanol	Skin - rabbit - Mild skin irritation
Phenol	Skin - rabbit - Severe skin irritation - 24 h
Methanol	

Skin - rabbit - No skin irritation

C.I. PIGMENT BLACK 7

Skin – rabbit - Result: No skin irritation - 24 h

All other

No data available

**Serious Eye Damage/Eye Irritation**

Methyl Ethyl Ketone

no data available

Ethanol

Eyes - rabbit - Mild eye irritation - 24 h - Draize Test

Phenol

Eyes - rabbit - Severe eye irritation

Methanol

Eyes - rabbit - No eye irritation

C.I. PIGMENT BLACK 7

Eyes – rabbit - Result: No eye irritation

All other

No data available

**Respiratory Or Skin Sensitization**

No data available

**Germ Cell Mutagenicity**

Phenol

In vitro tests showed mutagenic effects

Methanol

Genotoxicity in vitro - Ames test - *S. typhimurium* - with and without metabolic activation – negative

Genotoxicity in vitro - in vitro assay - fibroblast - negative

Mutation in mammalian somatic cells.

Genotoxicity in vivo - mouse - male and female - Intraperitoneal – negative

All other

No data available

**Carcinogenicity**

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Phenol)

1 – Group 1: Carcinogenic to humans (Formaldehyde)

2B - Group 2B: Possibly carcinogenic to humans (C.I. PIGMENT BLACK 7)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: Reasonably anticipated to be a human carcinogen (Formaldehyde)

Known to be human carcinogen (Formaldehyde)

OSHA: May Cause Cancer (formaldehyde)

This product contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

C.I. PIGMENT BLACK 7

Carcinogenicity - rat - Inhalation

Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration:Tumors.

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

## Reproductive Toxicity

### Ethanol

Reproductive toxicity - Human - female - Oral

Effects on Newborn: Apgar score (human only). Effects on Newborn: Other neonatal measures or effects. Effects on

Newborn: Drug dependence.

### Methanol

Genotoxicity in vitro - Ames test - *S. typhimurium* - with and without metabolic activation – negative

Genotoxicity in vitro - in vitro assay - fibroblast - negative

Mutation in mammalian somatic cells.

Genotoxicity in vivo - mouse - male and female - Intraperitoneal - negative

### All other

No data available

## Specific Target Organ Toxicity Single Exposure

### Methyl Ethyl Ketone

May cause drowsiness or dizziness.

### I

### Methanol

Causes damage to organs

### All other

No data available

## Specific Target Organ Toxicity Repeated Or Prolonged Exposure

### Phenol

May cause damage to organs through prolonged or repeated exposure.

### All other

No data available

## Aspiration Hazard

No data available

## SECTION 12 – ECOLOGICAL INFORMATION

**General Comments:** Do not allow material to be released into the environment without proper governmental permits

### Environmental Toxicity:

#### Methyl Ethyl Ketone

Toxicity to fish

mortality NOEC - *Cyprinodon variegatus* (sheepshead minnow) - 400 mg/l - 96 h  
LC50 - *Pimephales promelas* (fathead minnow) - 3,130 - 3,320 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

LC50 - *Daphnia magna* (Water flea) - > 520 mg/l - 48 h  
EC50 - *Daphnia magna* (Water flea) - 7,060 mg/l - 24 h

#### Ethanol

Toxicity to fish

No data available

Toxicity to daphnia and other aquatic invertebrates

No data available

#### Phenol

Toxicity to fish

LC50 - *Leuciscus idus* (Golden orfe) - 14.00 - 25.00 mg/l - 48 h  
LC50 - *Carassius auratus* (goldfish) - 36.10 - 68.80 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - *Daphnia magna* (Water flea) - 12.00 mg/l - 24 h  
EC100 - *Daphnia magna* (Water flea) - 100.00 mg/l - 24 h

	Toxicity to algae	EC50 - Chlorella vulgaris (Fresh water algae) - 370.00 mg/l - 96 h
Methanol		
	Toxicity to fish	mortality LC50 - Lepomis macrochirus (Bluegill) - 15,400.0 mg/l - 96 h NOEC - Oryzias latipes - 7,900 mg/l - 200 h
	Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - > 10,000.00 mg/l - 48 h
	Toxicity to algae	Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 22,000.0 mg/l - 96 h
C.I. PIGMENT BLACK 7		
	Toxicity to fish	LC50 - Danio rerio (zebra fish) - > 1,000 mg/l - 96 h
	Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - > 5,600 mg/l - 24 h
	Toxicity to algae	static test EC50 - Desmodesmus subspicatus (green algae) - > 10,000 mg/l - 72 h
Xylene		
	Toxicity to fish	Rainbow trout: LC50 = 13.5 mg/L; 96 Hr; Unspecified Goldfish: LD50 = 13 mg/L; 24 Hr; Unspecified Fathead Minnow: LC50 = 46 mg/L; 1 Hr
	Toxicity to daphnia and other aquatic invertebrates	EC50 (48 Hr.) water flea = 3.82 mg/L, flow -through conditions
Formaldehyde		
	Toxicity to fish	No data available
	Toxicity to daphnia and other aquatic invertebrates	No data available
<b>Persistence and degradability</b>		
no data available on mixture		
<b>Bioaccumulative potential</b>		
no data available on mixture		
<b>Mobility in soil</b>		
no data available on mixture		
<b>Other adverse effects</b>		
no data available on mixture		

### **SECTION 13 – DISPOSAL CONSIDERATIONS**

#### **Waste Disposal Method:**

Product :

Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Offer surplus and non-recyclable solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Contact a licensed professional waste disposal service to dispose of this material.

#### **Contaminated Packaging**

Dispose of as unused product.

### **SECTION 14 – TRANSPORTATION INFORMATION**

**Hazardous for Shipping:** Yes

**Based on 49 CFR, IATA and IMDG:**

**UN Number:** UN1263

**UN Proper Shipping Name:** Paint



**Hazard Class:** 3  
**Packing Group:** II  
**Labels:** Flammable Liquid  
**Placards:** Flammable Liquid

**SECTION 15 – Regulatory Information**

**TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:** All hazardous ingredients are on the TSCA Chemical Substance Inventory.

Component	CAS#	SARA 302	SARA 313	Massachusetts RTK	Pennsylvania RTK	New Jersey RTK	California Prop 65 list
Methyl Ethyl Ketone	78-93-3	No	No	Yes	Yes	Yes	No
Ethanol	64-17-5	No	No	Yes	Yes	Yes	No
Phenol	108-95-2	Yes	Yes	Yes	Yes	Yes	No
Dimethyl Phthalate	11/03/31		Yes				
Methanol	67-56-1	No	Yes	Yes	Yes	Yes	No
C.I. PIGMENT BLACK 7	1333-86-4	No	No	Yes	Yes	Yes	Yes
Formaldehyde	50-00-0	Yes	Yes	Yes	Yes	Yes	Yes

**SARA 311 / 312 Hazards:** Flammable Hazard ,Acute Health Hazard, Chronic Health Hazard

**SECTION 16 – OTHER INFORMATION**

**Date Prepared:** 02/09/2017

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