



SAFETY DATA SHEET

Section 1 – Identification

Product Identifier: Activator

Part Number: ACT

Recommended Use: Activator to reduce cure temperature of High Temperature coatings.

Restrictions on Use:

Keep out of reach of children. Not recommended for use on Medical equipment. Not recommended for use on Aviation equipment.

Manufacturer / Supplier:

Tech Line Coatings Industry, Inc. PO Box 668, 10840 Chapman Hwy, Seymour, TN 37865 USA Phone/Fax 1-865-773-0599 www.techlinecoatings.com

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

Section 2 – Hazards Identification

Signal Word: Danger

Symbols:



Hazard Statements:	GHS Classification:	Category
Highly flammable liquid and vapor	Flammable Liquid	2
Toxic if swallowed	Acute Toxicity Oral	3
Toxic in contact with skin	Acute Toxicity Dermal	3
Toxic if inhaled	Acute Toxicity Inhalation	3
Causes severe skin burns and eye damage	Skin Corrosion	1
Causes serious eye damage	Eye Damage	1
Suspected of causing cancer	Carcinogenicity	2
Suspected of damaging fertility or the unborn child	Toxic to Reproduction	2
Causes damage to organs; or May cause damage to organs; liver, kidney, eyes, lungs, central nervous system	Specific Target Organ Toxicity Single Exposure	1
May be fatal if swallowed and enters airways	Aspiration Hazard	1

**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. Do NOT induce vomiting.

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. Immediately call a doctor.

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>
Ethanol	Ethyl Alcohol	64-17-5	52 to 42%
Trade Secret		Trade Secret	55 to 45%
Isopropanol	2-Propanol, Isopropyl Alcohol	67-63-0	2 to 5%
Methanol	Methyl Alcohol	67-56-1	1 to 3%
Methy Isobutyl Ketone	MIK, Isopropylacetone	108-10-1	0 to 0.5%

Other ingredients are not hazardous based on OSHA standard Section 29 CFR 1910.1200

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

#### **General Advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### **In case of skin contact**

Wash off with soap and plenty of water, and remove contaminated clothing shoes and leather goods. Consult a physician..

#### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### **If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### **Note To Physician**

Moderately toxic by swallowing. May cause acute kidney injury (renal cortical tubular necrosis) by massive peroral overdose or sustained skin contact. Due to the severely irritating or corrosive nature of the material, swallowing may lead to ulceration and inflammation of the upper alimentary tract with hemorrhage and fluid loss.

Also, perforation of the esophagus or stomach may occur, leading to mediastinitis or peritonitis and the resultant complications. This material reacts immediately with water in the acid contents of the stomach to produce ethanol. Although ethanol production may occur, and there is a potential for nephrotoxicity, because of its intensely irritating effects, it is unlikely that large volumes of this material will be acutely ingested. Therefore, the irritant and aspiration hazards from regurgitation are more serious causes for concern. In view of this, it is recommended that emesis should not be induced in the conscious patient, neither mechanically nor pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be undertaken with caution in order to avoid perforation of inflamed or ulcerated areas of the upper alimentary tract, or to avoid aspiration (e.g., gastric lavage in the presence of endotracheal intubation).

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

<b>Extinguishing Media:</b> Use alcohol-resistant foam, dry chemical or carbon dioxide.	<b>Special Fire Fighting Procedures:</b> Wear self contained breathing apparatus for fire fighting if necessary.
<b>Unusual Fire And Explosion Hazards:</b> Hazardous decomposition products formed under extreme fire conditions. - Carbon and other oxides. Vapors are heavier than air and may travel to a source of ignition and flash back.	<b>Additional Information:</b> Use water spray to cool unopened containers.

## Section 6 – Accidental Release Measures

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### Methods for Containment and Clean Up

- Soak up with inert absorbent material. Sand, silica gel, acid binder or universal binder.
- 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 personal protective equipment
  - NIOSH Approved Respirator
  - Gloves
  - Safety Glasses
- Do not allow material to be released into the environment.

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. Protect from moisture.

### 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
Ethanol	1000 ppm TWA	1000 ppm TWA	1000 ppm TWA
Trade Secret	No data available	No data available	No data available
Isopropanol	200 ppm TWA	400 ppm TWA	400 ppm TWA
Methanol	200 ppm TWA	200 ppm TWA	200 ppm TWA
Methy Isobutyl Ketone	50 ppm TWA	50 ppm TWA	50 ppm TWA

### 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 :	Clear
Odor :	Alcohol
Odor Threshold:	Not Established
pH :	No data available
Melting point/range :	No data available
Initial boiling point :	> 148° F.
Flash point :	> 49° F.
Evaporation Rate:	No data available on mixture
Upper/lower flammability or explosive limits:	No data available on mixture
Vapor pressure	No data available on mixture
Vapor density	> 1 - (air =1)
Relative density	941.5 g/l
Solubility(ies)	No data available on mixture
Partition coefficient: n-octanol/water	No data available on mixture
Auto-ignition temperature	No data available on mixture
Decomposition temperature	No data available on mixture
Viscosity	No data available on mixture
Total VOC	< 940 g/l

### Section 10 – Stability And Reactivity

<b>Stability:</b>	STABLE
<b>Possibility of hazardous reactions:</b>	Hazardous Polymerization: Will not occur.
<b>Conditions to avoid:</b>	Avoid storage of open containers at elevated temperatures. Heat, flames and sparks, direct sunlight.
<b>Incompatible Materials:</b>	Reaction with acid, water or other aqueous media is exothermic.
<b>Hazardous Decomposition Products:</b>	Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silicon dioxide. Carbon oxides. Metal oxides. Formaldehyde.

### Section 11 – Toxicological Information

#### Potential Health Effects

<b>Inhalation</b>	Toxic if inhaled.
<b>Ingestion</b>	Toxic if swallowed.
<b>Skin</b>	Toxic in contact with skin. Causes severe skin burns damage
<b>Eyes</b>	Causes severe eye damage

#### Acute Toxicity

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

Trade Secret	Oral LD50	LD50 Oral - rat - 3500 mg/kg
	Inhalation LC50	No data available
	Dermal LD50	LD50 Dermal - rabbit - 4000 mg/kg
Isopropanol	Oral LD50	LD50 Oral - rat - > 10000 mg/kg LD50 Oral - rat - 5,045 mg/kg Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Somnolence (general depressed activity).
	Inhalation LC50	LC50 Inhalation - rat - 8 h - 16000 ppm
	Dermal LD50	LD50 Dermal - rabbit - 12,800 mg/kg
Methanol	Oral LD50	LD50 Oral - rat - 13,000 mg/kg LDLO Oral - Human - 143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
	Inhalation LC50	LD50 Oral - rat - 1,187 - 2,769 mg/kg 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
Methy Isobutyl Ketone	Oral LD50	LD50 Oral - rat - 2,080 mg/kg
	Inhalation LC50	LC50 Inhalation - rat - 4 h - 8.2 - 16.4 mg/m3
	Dermal LD50	LD50 Dermal - rabbit - > 16,000 mg/kg

**Skin Corrosion/Irritation**

Ethanol  
 Skin - rabbit - Irritating to skin. - 24 h  
 Trade Secret  
 Corrosive to skin  
 Isopropanol  
 Skin - rabbit - Mild skin irritation  
 Methy Isobutyl Ketone  
 Skin - rabbit - Mild skin irritation - 24 h

**Serious Eye Damage/Eye Irritation**

Ethanol  
 Eyes - rabbit - Mild eye irritation - 24 h - Draize Test  
 Trade Secret  
 Eyes - rabbit – very markedly irritating  
 Isopropanol  
 Eyes - rabbit - Eye irritation - 24 h  
 Methy Isobutyl Ketone  
 Eyes - rabbit - Moderate eye irritation - 24 h

**Respiratory Or Skin Sensitization**

No data available

**Germ Cell Mutagenicity**

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

## Carcinogenicity

- IARC: Isopropanol  
3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)  
Methy Isobutyl Ketone  
2B - Group 2B: Possibly carcinogenic to humans (4-Methylpentan-2-one)
- Other: Ethanol  
Carcinogenicity - mouse - Oral  
Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors. Blood: Lymphomas including Hodgkin's disease
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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

## 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  
Fertility classification not possible from current data.

## Specific Target Organ Toxicity Single Exposure

- Isopropanol  
May cause drowsiness or dizziness.
- Methanol  
Causes damage to organs.
- Methy Isobutyl Ketone  
May cause respiratory irritation.

## Specific Target Organ Toxicity Repeated Or Prolonged Exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

## Aspiration Hazard

Aspiration into the lungs can cause fatal chemical pneumonitis.

## Section 12 – Ecological Information

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### General Comments:

Do not allow material to be released into the environment without proper governmental permits

### Environmental Toxicity:

Ethanol	
Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to algae	No Data Available

### Trade Secret

Toxicity to fish LC50 Species: Brachydanio rerio Result: > 934 mg/l Exposure time: 96 h Method:

OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates	EC50 Species: Daphnia magna Result: 331 mg/l Exposure time: 48 h Method: OECD-Guideline 202
Toxicity to algae	EC50 Species: Desmodesmus subspicatus (green algae) Result: > 1,000 mg/l Exposure time: 72 h NOEC Species: Desmodesmus subspicatus (green algae) Result: 1.3 mg/l Exposure time: 72 h
Toxicity to microorganisms	EC10 Species: Pseudomonas putida Result: 13 mg/l Exposure time: 5.75 h EC50 Species: Pseudomonas putida Result: 43 mg/l Exposure time: 5.75 h
Isopropanol	
Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 9,640.00 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 5,102.00 mg/l - 24 h Immobilization EC50 - Daphnia magna (Water flea) - 6,851 mg/l - 24 h
Toxicity to algae	EC50 - Desmodesmus subspicatus (green algae) - > 2,000.00 mg/l - 72 h EC50 - Algae - > 1,000.00 mg/l - 24 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
Methy Isobutyl Ketone	
Toxicity to fish	LC0 - Leuciscus idus melanotus - 480 mg/l - 48 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 1,550 - 3,623 mg/l - 24 h
Toxicity to algae	EC50 - Desmodesmus subspicatus (green algae) - 980 - 2,000 mg/l - 48 h
Environmental Toxicity on mixture: No data available	

**Section 13 – Disposal Considerations**

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**Waste Disposal Method:**

**RCRA Hazard Class (40 CFR 261)**

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Yes

Characteristic Waste:

Ignitable: D001

TCLP: D018

State or local laws may impose additional regulatory requirements regarding disposal.

**Contaminated Packaging**

Dispose of as unused product.

**Section 14 – Transportation Information**

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**Hazardous for Shipping:** Yes

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

**UN Number:** UN3469

**UN Proper Shipping Name:** Paint, flammable, corrosive

**Hazard Class:** 3 (8)

**Packing Group:** II

**Labels:** Flammable Liquid, Corrosive

**Placards:** Flammable Liquid, Corrosive

**Section 15 – Regulations**

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

Component	%	CAS Number	SARA 313	SARA 302	New Jersey RTK List	Pennsylvania RTK List	Massachusetts RTK List	California Prop 65 list
Ethanol	> 42%	64-17-5	no	no	Yes	Yes	Yes	No
Trade Secret	> 45%	Trade Secret	Yes	No	TBD	TBD	TBD	No
Isopropanol	2 to 5%	67-63-0	Yes	No	Yes	Yes	Yes	No
Methanol	1 to 3%	67-56-1	Yes	No	Yes	Yes	Yes	No
Methy Isobutyl Ketone	0 to 0.5%	108-10-1	Yes	No	Yes	Yes	Yes	Yes

TBD: To Be Determined by examining sections 2 and 11 of this SDS as the listing requirements of the Right to Know (RTK) legislation varies from state to state.

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

**Section 16 – Other Information**

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