

## 1 Identification of the Product and the Company or Undertaking

### Product Identifier

Trade Name: **310031**

Application of the Substance or Mixture: **ACTIVATOR**

### Details of the Supplier of the Safety Data Sheet (SDS)

#### Manufacturer or Supplier:

Room 9,11 Floor, Chuangxin Building Block 1, No.1, Technology Road, Technology Chuangxin Park,  
West of Dayabay, Huizhou City, Guangdong, P.R. China  
[www.resinlab.com](http://www.resinlab.com)

Information Department: Product Safety Department: [msds@resinlab.com](mailto:msds@resinlab.com)

#### Emergency Telephone Number:

North America - Chemtrec: 1-800-424-9300 (24 hours)

International - Chemtrec: 01-703-527-3887 (24 hours)

## 2 Hazard(s) Identification

Classification of the chemical in accordance with CFR

1910.1200(d)(f):

### GHS Pictograms



Signal Word **DANGER.**

### GHS Class

Flammable Liquid. Category 2.

Eye Irritation. Category 2. Skin Irritation. Category 2.

Skin Sensitization. Category 1.

Specific Target Organ Toxicity - STOT, Single Exposure SE. Category 3.

### Hazard Statements

H225 - Highly flammable liquid and vapor.

H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H335 - May cause respiratory irritation.

### Precautionary Statements

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment.

P241 - Use explosion-proof electrical/ventilating/lighting equipment. P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace.

**Safety Data Sheet**

Print Date 05/24/2019

Revision Date 05/24/2019

*P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - IF ON SKIN: Wash with plenty of water.*

*P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.*

*P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

*P312 - Call a POISON CENTER or doctor/physician if you feel unwell. P321 - Specific treatment (see ... on this label).*

*P332+P313 - If skin irritation occurs: Get medical advice/attention.*

*P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.*

*P362+P364 - Take off contaminated clothing and wash it before reuse.*

*P370+P378 - In case of fire: Use dry chemical, carbon dioxide to extinguish small fires. Use water for large fires.*

*P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P235 - Store in a well-ventilated place. Keep cool.*

*P405 - Store locked up.*

*P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.*

Hazards not otherwise classified that have been identified during the classification process:

· **Route of Exposure** Eyes. Skin. Inhalation. Ingestion.

· **Potential Health Effects**

**Eye:**

Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

**Skin:**

Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

**Inhalation:**

Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects.

**Ingestion:**

Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

**Chronic Health Effects:**

Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.

**Signs/Symptoms:**

Overexposure can cause headaches, dizziness, nausea, and vomiting.

**Target Organs:**

Eyes. Skin. Respiratory system. Digestive system. Liver. Kidney. Olfactory Function.

**Aggravation of Pre-Existing Conditions:**

Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

· **HMIS Ratings:**

**Health Hazard****2\***

Health Hazard = 2\*  
Fire Hazard = 3  
Reactivity = 2  
Personal Protection=X

## Safety Data Sheet

Print Date 05/24/2019

Revision Date 05/24/2019

<b>Fire Hazard</b>	<b>3</b>
<b>Reactivity</b>	<b>2</b>
<b>Personal Protection</b>	<b>X</b>

### 3 Composition/Information on Ingredients

#### Mixtures

<b>Chemical Name</b>	<b>CAS#</b>	<b>Ingredient (%)EC Num.</b>
Proprietary ingredient(s)	Trade Secret	7.1 - 7.8 by weight
Poly (acrylonitrile-butadiene-styrene)	9003-56-9	6.8 - 7.5 by weight
Acrylic-butadiene-styrene terpolymer	25852-37-3	6.7 - 7.4 by weight
Methyl Methacrylate Monomer	80-62-6	68.4 - 75.6 by weight
3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	34562-31-7	3.1 - 3.5 by weight
Carbon black	1333-86-4	0.1 - 1 by weight

### 4 First-aid Measures

#### Description of necessary measures:

##### **·Eye Contact**

Immediately flush eyes with plenty of water for at least 15 to 20 minutes.

Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

##### **·Skin Contact**

Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes.

Get medical attention if irritation develops or persists.

##### **·Inhalation**

If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

##### **·Ingestion**

If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately.

Never give anything by mouth to an unconscious person.

### 5 Fire-fighting Measures

#### **·Suitable and unsuitable extinguishing media**

##### **· Suitable extinguishing media**

Use carbon dioxide (CO<sub>2</sub>) or dry chemical when fighting fires involving this material.

**Safety Data Sheet**

Print Date 05/24/2019

Revision Date 05/24/2019

· **Unsuitable extinguishing media**      Water may cause frothing.

· **Unusual Fire Hazards**

Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization.

· **Special protective equipment and precautions for fire – fighters**

· **Protective Equipment**

As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear. · **Fire Fighting Instructions**

· **Fire Fighting Instructions:**

Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture.

Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

Vapors can flow along surfaces to distant ignition sources and flash back.

## 6 Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**

· **Personnel precautions**

Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so.

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages cannot be contained.

· **Environmental precautions**

· **Environmental Precautions**

Avoid runoff into storm sewers, ditches, and waterways.

· **Spill Cleanup Measures**

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal.

Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue.

Flammable, eliminate ignition sources. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back. Ventilate area. Use proper personal protective equipment as listed in Section 8.

## 7 Handling and Storage

· **Precautions for safe handling**

· **Handling**

Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning or reconditioning.

· **Hygiene Practices**      Wash thoroughly after handling.

· **Special Handling Procedures**

Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10)

**Safety Data Sheet**

Print Date 05/24/2019

Revision Date 05/24/2019

during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product. Hazardous liquid or vapor residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut, weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources of empty containers without proper commercial cleaning or reconditioning.

**· Conditions for safe storage , including any incompatibilities:****· Storage**

Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use.

**8 Exposure Controls/Personal Protection****· EXPOSURE GUI DELINES****· Methyl Methacrylate Monomer****Guideline ACGIH**

TLV-STEL: 100 ppm

TLV-TWA: 50 ppm

Sensitizer.

**Guideline OSHA**

PEL-TWA: 100 ppm

**· Carbon black :****Guideline ACGIH**

TLV-TWA: 3 mg/m 3 Inhalable fraction (I)

**· Appropriate engineering controls****· Engineering Controls**

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

**· Individual protection measures****· Eye/Face Protection**

Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

**· Skin Protection Description**

Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.

**· Respiratory Protection**

A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**· Other Protective**

Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

**· Notes**

Only established PEL and TLV values for the ingredients are listed.

**9 Physical and Chemical Properties****· PHYSICAL AND CHEMICAL PROPERTIES:**

<b>Physical State Appearance:</b>	Paste.
<b>Color:</b>	Black.
<b>Odor:</b>	Fragrant.
<b>Boiling Point:</b>	213°F (100.5°C)
<b>Melting Point:</b>	-54°F (-47.7°C)
<b>Specific Gravity:</b>	0.93-1.05
<b>Solubility:</b>	Not determined.
<b>Vapor Density:</b>	3.5 (air = 1)
<b>Vapor Pressure:</b>	28 mm Hg @68°F
<b>Percent Volatile:</b>	Not determined.
<b>Evaporation Rate:</b>	3 (butyl acetate = 1)
<b>Molecular Formula:</b>	Mixture
<b>Molecular Weight:</b>	Mixture
<b>Flash Point:</b>	50°F(10°C)
<b>Flash Point Method:</b>	Tag Closed cup. (TCC)
<b>Lower Flammable/Explosive Limit:</b>	2.1%
<b>Upper Flammable/Explosive Limit:</b>	12.5%
<b>Auto Ignition Temperature:</b>	Not determined.
<b>VOC Content:</b>	<50 g/L mixed.
<b>9.2.Other information:</b>	
<b>Percent Solids by Weight:</b>	Not determined.

**10 Stability and Reactivity****· Chemical Stability**

**· Chemical Stability**      Unstable.

**· Possibility of hazardous reactions**

**· Hazardous Polymerization**      Polymerization may occur under certain conditions.

**· Conditions To Avoid :**

Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Oxygen-free atmospheres or inert gas blanketing. Freezing conditions. Material can soften paint and rubber.

**· Incompatible Materials**



**Safety Data Sheet**

Print Date 05/24/2019

Revision Date 05/24/2019

Oxidizing agents (eg peroxides, nitrates), reducing agents, acids, bases, azo-compounds, catalytic metals (eg copper, iron), halogens. Free radical initiators. Oxygen scavengers.

**11 Toxicological Information****· TOXICOLOGICAL INFORMATION****· Eye**

Administration into the eye - Rabbit Standard Draize test: 150 mg [Not reported.] (RTECS)

**· Skin**

Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: >5 gm/kg [Skin and Appendages - Dermatitis, other (After systemic exposure)] (RTECS)

**· Inhalation**

Inhalation - Rat LC50 - Lethal concentration, 50 percent kill: 78000 mg/m<sup>3</sup>/4H [Details of toxic effects not reported other than lethal dose value] (RTECS)

**· Ingestion**

Oral - Rat LD50 - Lethal dose, 50 percent kill: 7872 mg/kg [Behavioral - Muscle weakness Behavioral - Coma Lungs, Thorax, or Respiration - Respiratory depression] (RTECS)

**· Carbon black :****· Eye**

Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: >3 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

**· Skin**

Oral - Rat LD50 - Lethal dose, 50 percent kill: >15400 mg/kg [Behavioral - Somnolence (general depressed activity)] (RTECS)

**· Chronic Effects**

This product contains carbon black, which is classified as a possible carcinogen by the International Agency for Research on Cancer (IARC). Although normal application procedures for this product pose minimal hazard as to the release of carbon black dust, grinding or sanding cured product may generate respirable carbon black.

**· Carcinogenicity**

Carbon black and its extracts have been tested for carcinogenicity in rats and mice by inhalation and it has shown sufficient evidence in laboratory animals for the carcinogenicity of carbon black..

**12 Ecological Information****· Ecotoxicity**

**Ecotoxicity:** No ecotoxicity data was found for the product.

**Environmental Fate:** No environmental information found for this product.

**13 Disposal Considerations****· Disposal of waste****· Waste Disposal:**

Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

**· RCRA Number** D001

**· Important Disposal Information:**

**DANGER!** Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly

**14 Transport Information**

**DOT Shipping Name:** Refer to Bill of Lading

**DOT UN Number:** Refer to Bill of Lading

**15 Regulatory Information****· Product Identifier****Poly (acrylonitrile-butadiene-styrene) :**

**TSCA Inventory Status:** Listed

**Canada DSL:** Listed

**Acrylic-butadiene-styrene terpolymer :**

**TSCA Inventory Status:** Listed

**Canada DSL:** Listed

**Methyl Methacrylate Monomer :**

**TSCA Inventory Status:** Listed

**Section 313:** EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.

**Canada DSL:** Listed

**3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine :**

**TSCA Inventory Status:** Listed

**Canada DSL:** Listed

**Carbon black :**

**TSCA Inventory Status:** Listed



**Safety Data Sheet**

Print Date 05/24/2019

Revision Date 05/24/2019

**California PROP 65:** Listed: cancer.**Canada DSL:** Listed**Canadian Regulations.** WHMIS Hazard Class(es): B2; D2B; D2A  
Substances List. All components of this product are on the Canadian Domestic**WHMIS Pictograms:****16 Other Information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department Issuing (M)SDS:** Product Safety Department
- **Contact:** msds@resinlab.com

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**· Abbreviations and acronyms:**

TSCA: US Toxic Substance Control Act

RTECS: US Registry of Toxic Effects of Chemical Substances

NIOSH: US National Institute of Occupational Safety and Health

OSHA: US Occupational Safety and Health Administration

DSL: Canada Domestic Substance List