



ALFA INTERNATIONAL CORPORATION

32 Mechanic Avenue Unit 99 • Woonsocket RI 02895
Tel. 401-765-0503 • Fax 401-765-0508
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IMPORTANT NOTE: The manufacturer makes no warranty whether expressed, implied, including warranties for merchantability or of fitness for a particular purpose for this product. The information contained herein is believed to be accurate, and is offered for consideration and investigation. Under no circumstances shall the manufacturer be liable for incidental, consequential or other damages, breadth of warranty, strict liability, or any other theory arising out of the use or handling of this product.

MATERIAL SAFETY DATA SHEET

MSDS Number: M24S1

MSDS Date: 08/09/2010

Material Identity: AL 3013 Part "A" Resin (All colors)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AL 3013 Part "A" Resin (All Colors)

MANUFACTURER: Alfa International Corp.
ADDRESS: 32 Mechanic Ave., Unit 99, Woonsocket, RI 02895

EMERGENCY PHONE: 866-353-2532
CHEMTREC PHONE: 800-424-9300
OTHER CALLS: 401-765-0503
FAX PHONE: 401-765-0508

CHEMICAL NAME: Epoxy Resin

PRODUCT USE:
PREPARED BY: Alfa International

SECTION II -- HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific chemical Identity: Common names)	OSHA PEL	ACGIH TLV	Other Limits	% (optional)
Diglycidyl Ether of Bisphenol A				
CAS# 25068-38-6	None Established	None Established		
C ₁₂ -C ₁₄ Glycidyl Ether				
CAS# 120547-52-6	None Established	None Established		

Section III -- Physical/Chemical Characteristics

Boiling Point	Not Available	Specific Gravity	1.1 @ 25°C
Vapor Pressure (mm Hg.)	< 1	Melting Point	Liquid
Vapor Density (AIR=1)	>1	Evaporation Rate (Butyl Acetate=1)	Not Available
Solubility in Water	Slight		
Appearance and Odor	Black, Liquid, Sweet Odor		

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash Point (method used): >100°C (SetaFlash)	Flammable Limits: N/A	LEL: N/A	UEL: N/A
Extinguishing Media: Dry Chemical, Carbon Dioxide, Foam, Water Spray for Large Areas			
Special Fire Procedures: Full Emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire fighters. No skin surface should be exposed.			
Unusual Fire & Explosion Hazards: May generate toxic, irritating or flammable combustion products. May generate carbon Monoxide gas.			

SECTION V -- REACTIVITY DATA

Stability	Unstable		Conditions to Avoid:
	Stable	√	
Incompatibility (Materials to Avoid): Avoid contact with strong oxidizing agents & mineral acids			
Hazardous Decomposition or Byproducts: Carbon Monoxide & irritating & toxic fumes			
Hazardous Polymerization	May Occur		Conditions to Avoid:
	Will not	√	

SECTION VI -- HEALTH HAZARD DATA

Route(s) of Entry	Inhalation?	Skin?	Ingestion?
	YES	YES	YES
Health Hazards (Acute & Chronic):			
Inhalation: Respiratory Irritation Skin: Dermal irritation may cause allergic skin reaction in susceptible individuals. Ingestion: Gastrointestinal irritation Eye: Eye Irritation			
Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
	Not Listed	Not Listed	Not Listed
Signs & Symptoms of Exposure:			
Inhalation: Burning sensation in the nose and throat, chest tightness or pain Skin: Reddening, swelling, rash, scaling, and blistering Ingestion: Dizziness, weakness Eyes: Pain, tearing reddening and swelling			

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in Case Material is Released or Spilled:
Equip clean-up crew with appropriate protective equipment. Dike or impound spilled material and control further spillage if feasible. Cover spill with absorbent material. Residual resin may be removed with steam or hot soapy water. Use solvents with safe handling practices.
Waste Disposal Method:
Dispose of in accordance with federal, state and local environment control regulations.
Precautions to Be Taken in Handling & Storing:
Store in tightly closed containers to prevent moisture contamination. Avoid high temperatures.
Other Precautions:
Wash/shower at the end of each shift and before eating, smoking, or using the toilet. Promptly wash any dermal contaminated areas. Promptly remove any contaminated clothing.

Medical Conditions Generally Aggravated by Exposure: Skin disorders and allergies
Emergency & First Aid procedures:
Inhalation: Move to fresh air, give O2 & consult physician Skin: Remove contaminated clothing, wash with soap & water for 15 minutes, consult physician Ingestion: Do NOT induce vomiting. IF conscious give lots of milk or water, consult physician Eye: Flush with clean, lukewarm water for at least 15 minutes holding eyelids open all the time. Consult Physician

SECTION VIII -- CONTROL MEASURES

Respiratory Protections (specify type): Not required under normal use conditions, NIOSH respirator if spraying			
Ventilation	Local Exhaust:	General dilution ventilation	Special: Forced ventilation if spraying
	Mechanical (general):	Not Applicable	Other: Not Applicable
Protective Gloves: Permeation resistant gloves (butyl rubber)			Eye Protection: Safety glasses or splash goggles.
Other Protective Clothing or Equipment:			
Cover as much of the workers exposed skin as possible to prevent contact			
Work/Hygienic Practices:			
Contact lenses should not be worn by persons handling this product.			

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MATERIAL SAFETY DATA SHEET**MSDS Number:** M23S1**MSDS Date:** 08/07/2010

Material Identity: AL 3013 Part "B" Activator (All colors)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AL 3013 Part "B" Activator (All Colors)

MANUFACTURER: Alfa International Corp.
ADDRESS: 32 Mechanic Ave., Unit 99, Woonsocket, RI 02895

EMERGENCY PHONE: 866-353-2532
CHEMTREC PHONE: 800-424-9300
OTHER CALLS: 401-765-0503
FAX PHONE: 401-765-0508

CHEMICAL NAME: Epoxy Resin

PRODUCT USE:
PREPARED BY: Alfa International

SECTION II -- HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific chemical Identity: common name(s))	OSHA PEL	ACGIH TLV	Other Limits	%(optional)
Phenol				
CAS #108-95-2	5 ppm	19 mg/m ³		2
Benzyl Alcohol				
CAS# 100-51-6	Not Established	Not Established		

SECTION III -- PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	Not Available	Specific Gravity	1.0 @ 25°C
Vapor Pressure (mm Hg.)	Not Available	Melting Point	Liquid
Vapor Density (AIR=1)	Not Available	Evaporation Rate (Butyl Acetate=1)	Not Available
Solubility in Water	Limited		
Appearance and Odor	Amber, Liquid, Strong Ammoniacal Odor		

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash Point (method used): >125°C (closed cup)	Flammable Limits: N/A	LEL: N/A	UEL: N/A
Extinguishing Media: Dry Chemical, Foam, Carbon Monoxide, WaterSpray.			
Special Fire Procedures: Full Emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire fighters. No skin surface should be exposed.			
Unusual Fire & Explosion Hazards: May generate toxic, irritating or flammable combustion products. May generate carbon monoxide and toxic nitrogen oxide gas.			

SECTION V -- REACTIVITY DATA

Stability	Unstable		Conditions to Avoid:
	Stable	√	
Incompatibility (Materials to Avoid): Avoid contact with strong oxidizing agents & mineral acids			
Hazardous Decomposition or Byproducts: CO ₂ ,CO,NO _x , may be liberated in a fire involving activator			
Hazardous Polymerization	May Occur		Conditions to Avoid:
	Will not Occur	√	

SECTION VI: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in Case Material is Released or Spilled:
Equip clean-up crew with appropriate protective equipment. Dike or impound spilled material and control further spillage if feasible. Cover spill with absorbent material. Residual resin may be removed with steam or hot soapy water. Use solvents with safe handling practices.
Waste Disposal Method:
Dispose of in accordance with federal, state and local environment control regulations.
Precautions to Be Taken in Handling & Storing:
Store in tightly closed containers in a cool & dry atmosphere. Store away from ignition sources.
Other Precautions
Employee education & training in the safe use & handling of this compound are required under the OSHA Hazard Communication Standard

SECTION VII -- HEALTH HAZARD DATA

Route(s) of Entry	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards (acute & Chronic): Inhalation: Respiratory irritation, lethargy, loss of consciousness Skin: Dermal irritation may cause allergic skin reaction in susceptible individuals. Ingestion: Gastrointestinal irritation Eye: Eye irritation, Eye burns.			
Carcinogenicity	NTP? Not listed	IARC Monographs? Not listed	OSHA Regulated? Not listed

Signs & Symptoms of Exposure:
Inhalation: Burning sensation in the nose and throat, chest tightness or pain
Skin: Reddening, swelling, rash, scaling, and blistering
Ingestion: Dizziness, weakness
Eye: Pain, tearing reddening and swelling, conjunctivits, corneal edema (hazing)
Medical Conditions Generally Aggravated by Exposure: Chronic respiratory diseases, skin disorders and allergies
Emergency & First Aid Procedures:
Inhalation: Move to fresh air, give O2 & consult physician
Skin: Remove contaminated clothing, wash with soap & water for 15 minutes, consult physician.
Ingestion: Do NOT induce vomiting. IF conscious give lots of water, consult physician
Eye: Flush with clean, lukewarm water for at least 15 minutes holding eyelids open all the time. Consult Physician

SECTION VIII -- CONTROL MEASURES

Respiratory Protections (specify type):			
Not required under normal use conditions, NIOSH respirator if spraying			
Ventilation	Local Exhaust:	General dilution ventilation	Special: Strong local ventilation if spraying
	Mechanical (general):	Not Applicable	Other: Not Applicable
Protective Gloves: Permeation resistant gloves (butyl rubber)			Eye Protection: Safety glasses or splash goggles.
Other Protective Clothing or Equipment:			
Cover as much of the workers exposed skin as possible to prevent contact			
Work/Hygienic Practices:			
Contact lenses should not be worn by persons handling this product.			