

SAFETY DATA SHEET

SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

Product Name: 359 Novolac Epoxy Lining Product Code: 359-Activator LT35

Trade Name: 359-Activator LT35

Adams Paint Mfg Company
1416 N University Ave
Lubbock, Tx 79415
Telephone Number: 806-763-2944
Web Site: adamspaintmfg.com

Emergency Contacts & Phone Numbers
Chemtrec: 800-424-9300
SDS Request Line: 806-763-2944

Product Use: See Product Data Sheet

Not recommended for: See Product Data Sheet

SECTION 2 - HAZARDS IDENTIFICATION

GHS Ratings:

Flammable liquid	3	Flash point $\geq 23^{\circ}\text{C}$ and $\leq 60^{\circ}\text{C}$ (140°F)
Oral Toxicity	Acute Tox. 4	Oral $>300+\leq 2000\text{mg/kg}$
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity ≥ 3 , Iritis > 1.5
Skin sensitizer	1	Skin sensitizer
Mutagen	1B	Known to produce heritable mutations in human germ cellsSubcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity
Reproductive toxin	1B	Presumed, Based on experimental animals

GHS Hazards

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H340	May cause genetic defects
H360	May damage fertility or the unborn child

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat, sparks, open flames, hot surfaces and other ignition sources - No smoking
P233	Keep container tightly closed
P240	Ground and bond container and receiving equipment
P241	Use explosion-proof electrical, ventilating, lighting and equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P260	Do not breathe dust, fumes, gas, mist, vapors or spray
P261	Avoid breathing dust, fumes, gas, mist, vapors or spray
P264	Wash thoroughly after handling

P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves, protective clothing, eye protection and face protection
P281	Use personal protective equipment as required
P310	Immediately call a POISON CENTER or physician
P321	Specific treatment (see Section 4 of SDS on this label)
P330	Rinse mouth
P363	Wash contaminated clothing before reuse
P301+P312	IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water
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 continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical attention
P333+P313	If skin irritation or a rash occurs: Get medical attention
P370+P378	In case of fire: Use dry chemical, foam, carbon dioxide or water fog for extinction
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents and container in accordance with local and national regulations

Signal Word: Danger



SECTION 3 - COMPOSITION INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)	57214-10-5	40.00% - 50.00%
Phenol	108-95-2	20.00% - 30.00%
1,3-Benzenedimethanamine	1477-55-0	20.00% - 30.00%
1-Butanol	71-36-3	10.00% - 20.00%

SECTION 4 - FIRST AID MEASURES

Inhalation: Move to fresh air. Treat symptomatically. If not breathing, give artificial respiration or give oxygen by trained personnel. In case of unconsciousness place patient stably on side position for transportation. Seek immediate medical attention.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower eyelids. Check for and remove any contact lenses. Get medical attention. Chemical burns must be treated promptly by a physician.

Skin Contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. In the event of any complaints or symptoms, avoid further exposure. Get medical attention if irritation develops or persists.

Ingestion: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give

small quantities of water to drink. DO NOT induce vomiting. If vomiting occurs, the head should be kept low so that the vomit does not enter the lungs. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Notes to Physician: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: 37 C (99 F)

LEL: 1.00

UEL: 11.00

Suitable Extinguishing Media: Use dry chemical, foam, carbon dioxide, or water fog to extinguish fire. Water may not be effective to extinguish fire. Spattering of flammable liquid may result from spraying water.

Specific Hazards arising from the Chemical: Minimize breathing gases, vapors, fumes or decomposition products. Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors of gases to explosive concentrations. Closed containers may explode when exposed to heat.

Hazardous Combustion Products: Decomposition products may include the following materials: Carbon oxides.

Protection of Firefighters: Water may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers cool. Move containers from fire area if this can be done without risk. If a leak or spill has ignited, use water spray to disperse the vapors and to protect the men attempting to stop leak.

Protective Equipment and Precautions for Firefighters: Wear self-contained breathing apparatus and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. Avoid breathing vapor or mist. Provide adequate ventilation. Use proper personal protective equipment as listed in Section 8.

Environmental Precautions: Avoid runoff into storm sewers, ditches and waterways. Inform the relevant authorities if the product has caused environmental pollution.

Methods for Containment and Clean Up: Eliminate sources of ignition. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Large Spills: Use water spray to disperse vapors and dilute spill, prevent runoff from entering drains, sewers or streams.

SECTION 7 - HANDLING AND STORAGE

Handling: Use with adequate ventilation. Avoid breathing vapor and contacts with eyes, skin and clothing. Material will accumulate static charges which may cause an electrical spark (ignition source), bond and ground containers when transferring material. Use spark-proof tools and explosion-proof equipment. Do not reuse containers without proper cleaning or reconditioning.

Hygiene Practices: Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

Storage: Store in a cool dry, well ventilated area away from sources of heat, combustible materials and incompatible substances. Keep container tightly closed when not in use. Use appropriate containment to avoid environmental contamination.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis (methylamine) 57214-10-5	Not Established	Not Established	Not Established

Phenol 108-95-2	5 ppm TWA; 19 mg/m ³ TWA	5 ppm TWA	NIOSH: 5 ppm TWA; 19 mg/m ³ TWA 15.6 ppm Ceiling (15 min); 60 mg/m ³ Ceiling (15 min)
1,3-Benzenedimethanamine 1477-55-0	Not Established	0.1 mg/m ³ Ceiling	NIOSH: 0.1 mg/m ³ Ceiling
1-Butanol 71-36-3	100 ppm TWA; 300 mg/m ³ TWA	20 ppm TWA	NIOSH: 50 ppm Ceiling; 150 mg/m ³ Ceiling

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.

Eye / Face Protection: Wear protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulations.

Skin Protection: Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eye, skin or clothing.

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 uncontrolled release, exposure levels are not known or any other circumstances where air-purifying respirators may not provide adequate protection.

General Hygiene Considerations: Avoid breathing vapor or mist. Avoid contact with eyes and skin. Wash thoroughly after handling and before eating or drinking.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<p>Appearance: Liquid</p> <p>Vapor Pressure: 0.29 mmHg</p> <p>Vapor Density: Heavier than air</p> <p>Lbs / Gallon 8.77</p> <p>Freezing point: No Data</p> <p>Boiling range: 118°C</p> <p>Evaporation rate: Slower than Ether</p> <p>Explosive Limits: 1% - 11%</p> <p>Autoignition temperature: 343°C</p> <p>Viscosity: No Data</p>	<p>Odor: Amine</p> <p>Odor threshold: No Data</p> <p>pH: No Data</p> <p>Melting point: No Data</p> <p>Solubility: Moderate</p> <p>Flash point: 99 F, 37 C</p> <p>Flammability: Flammable Liquid Class IC</p> <p>Partition coefficient (n-octanol/water): No Data</p> <p>Decomposition temperature: No Data</p> <p>VOC g/l 168.331</p>
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SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal storage or use.

Conditions to Avoid: Heat, flames, sparks and other ignition sources.

Incompatible Materials: Avoid contact with oxidizing materials, acids and alkalis.

Hazardous Decomposition Products: Incomplete combustion may produce nitrogen oxides, carbon oxides, ammonia, phenol.

Hazardous Polymerization: Some combinations of resins and curing agents can produce exothermic reactions which in large masses can cause runaway polymerization and charring of the reactants. Reacts with acids, alkalis and

oxidizing agents.

SECTION 11 - TOXICOLOGICAL INFORMATION

Mixture Toxicity

Oral Toxicity LD50: 859mg/kg
Dermal Toxicity LD50: 2,060mg/kg
Inhalation Toxicity LC50: 3,334mg/L

Component Toxicity

108-95-2	Phenol Oral LD50: 340 mg/kg (Rat) Dermal LD50: 630 mg/kg (Rabbit)
1477-55-0	1,3-Benzenedimethanamine Oral LD50: 660 mg/kg (Rat) Dermal LD50: 2 g/kg (Rabbit) Inhalation LC50: 700 ppm (Rat)
71-36-3	1-Butanol Oral LD50: 700 mg/kg (Rat) Dermal LD50: 3,402 mg/kg (Rabbit)

Miscellaneous Toxicological Information:

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			No Data

SECTION 12 - ECOLOGICAL INFORMATION

No additional information provided for this product. See Section 3 for chemical specific data.

Component Ecotoxicity

Phenol	96 Hr LC50 Pimephales promelas: 11.9 - 50.5 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 20.5 - 25.6 mg/L [static]; 96 Hr LC50 Pimephales promelas: 32 mg/L; 96 Hr LC50 Oncorhynchus mykiss: 5.449 - 6.789 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 7.5 - 14 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.23 - 7.49 mg/L [semi-static]; 96 Hr LC50 Oncorhynchus mykiss: 5.0 - 12.0 mg/L; 96 Hr LC50 Lepomis macrochirus: 13.5 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 11.9 - 25.3 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 11.5 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: 34.09 - 47.64 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 31 mg/L [semi-static]; 96 Hr LC50 Brachydanio rerio: 27.8 mg/L; 96 Hr LC50 Cyprinus carpio: 0.00175 mg/L [semi-static]; 96 Hr LC50 Oryzias latipes: 33.9 - 43.3 mg/L [flow-through]; 96 Hr LC50 Oryzias latipes: 23.4 - 36.6 mg/L [static]; 48 Hr EC50 Daphnia magna: 4.24 - 10.7 mg/L [Static]; 48 Hr EC50 Daphnia magna: 10.2 - 15.5 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 46.42 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 0.0188 - 0.1044 mg/L [static]; 72 Hr EC50 Desmodesmus subspicatus: 187 - 279 mg/L [static]
1-Butanol	96 Hr LC50 Pimephales promelas: 1730 - 1910 mg/L [static]; 96 Hr LC50 Pimephales promelas: 1740 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 100000 - 500000 µg/L [static]; 96 Hr LC50 Pimephales promelas: 1910000 µg/L [static]; 48 Hr EC50 Daphnia magna: 1983 mg/L; 48 Hr EC50 Daphnia magna: 1897 - 2072 mg/L [Static]; 96 Hr EC50 Desmodesmus subspicatus: >500 mg/L; 72 Hr EC50 Desmodesmus subspicatus: >500 mg/L

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classification 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.

SECTION 14 - TRANSPORT INFORMATION

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Paint, corrosive, flammable	3470	II	8

SECTION 15 - REGULATORY INFORMATION

Additional regulatory listings, where applicable.

CERCLA RQ:

<u>Component</u>	<u>RQ (lbs)</u>
Phenol	500
1-Butanol	5000

SARA 311/312 Hazard Classes: Acute, Chronic, Fire

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING!

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- None

SARA 302 Components:

108-95-2 Phenol 20 to 30 %

SARA 313 TOXIC CHEMICALS:

71-36-3 1-Butanol 10 to 20 %

108-95-2 Phenol 20 to 30 %

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory.

- None

SECTION 16 - OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations and orders.

Reviewer Revision

Date Prepared: 6/17/2015