

Alpha Resources Inc.

Safety Data Sheet (SDS)

Revision Date: April 8, 2015

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**Phenolic Molding Material (bakelite preforms/powders)**

AM1111, AM1118, AM1123, AM1300, AM1301, AM1302, AM1303, AM1304, AM1305, AM1306, AM1307, AM1308, AM1309, AM1310, AM1311, AM1312, AM1313, AM1314, AM1315, AM1316, AM1317, AM1318, AM1319, AM1320, AM1321, AM1322, AM1323, AM1324, AM1325, AM1326, AM1327, AM1328, AM1329, AM1330, AM1331, AM1332, AM1333, AM1334, AM1335

This product is intended for laboratory use.

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CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word: DANGER

SECTION 2— HAZARDS IDENTIFICATION

Classification Hazard: Serious Eye Damage/Eye Irritation (Category 1), Germ Cell Mutagenicity (Category 2), Target Organ Toxicity, Repeated Exposure (Category 2), and Skin Sensitization (Category 1B)

Hazard Statements: May cause an allergic skin reaction (H317), causes serious eye damage (H318), suspected of causing genetic defects (H341), May cause damage to organs through prolonged or repeated exposure (H373), and HNOC: Organic dust can form highly explosive mixture when finely suspended in air. Avoid dust-laden atmospheres; minimize dust generation and accumulation.

Precautionary Statements: Obtain special instructions before use (P201), don't handle until all safety precautions have been read and understood (P202), use explosion proof equipment (P241), don't breathe dust/fume/mist/vapors/spray (P260), wash thoroughly after handling (P264), contaminated work clothing shouldn't be allowed out of the workplace (P272), wear protective gloves/protective clothing/eye protection/face protection (P280), and use personal protective equipment as required (P281).

**SECTION 3— COMPOSITION, INFORMATION ON INGREDIENTS**

Component	CAS #	Common %
Mica	12001-26-2	0-60
Phenol Formaldehyde Resin	9003-35-4	30-60
Hexamethylenetetramine	100-97-0	2-15
Graphite	7782-42-5	0-40
Coal Dust	N/A	0-20
Talc	14807-96-6	0-20
Carbon Black	1333-86-4	1-12
Phenol	108-95-2	1-4
Wood Flour		0-60
Calcium Hydroxide	1305-62-0	0-10

SECTION 4— FIRST AID MEASURES

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). If breathing is difficult qualified personnel may administer Oxygen. If not breathing give artificial respiration using a one-way valve to prevent further exposure if qualified. Consult physician.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338).

If eye irritation persists: Get medical advice or attention (P337+P313).

If on skin: Wash with plenty of water. (P302+P352). If persists seek medical attention and bring label. Thoroughly clean and dry contaminated clothing.

If swallowed: Immediately call a poison center or doctor/physician, rinse mouth thoroughly. Don't induce vomiting unless poison center advises. If vomiting occurs keep head low so the stomach content doesn't enter the lungs.

Provide this SDS to the doctor to keep them fully informed.

SECTION 5 — FIRE FIGHTING MEASURES

Flammable: Yes, by OSHA guidelines.

Extinguishing Media: A water fog, alcohol-resistant foam, dry chemical or carbon dioxide.

Fire-Fighting Equipment/Instructions: A self-contained breathing apparatus and full protection suit should be used when necessary. This protection suit should include flame retardant boots, gloves, shield, helmet, and coat.

Special Hazards arising from mixture: Fire could potentially produce irritating, corrosive, and/or toxic gases.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective equipment, and emergency procedures: Use efficient person protective equipment and avoid dust creation. Don't breathe vapors, mist, dust, or gas. Be certain adequate ventilation is present. Remove personnel if risk is low.

Methods and Materials for clean up: Pick up without forming dust. Sweep and shovel the material in a safe manner. Place in an acceptable vessel for disposal.

SECTION 7 — HANDLING AND STORAGE

Handling: Prevent contact with skin and eyes with material. Don't allow material to create dust. Use proper ventilation if dust is formed.

Storage: Store in a cool, dry place and keep sealed. Follow all regulations or standards that apply.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering controls: Proper ventilation should be utilized when working with this material.

Personal Protective Equipment: Use chemical lab goggles to prevent any dust in eyes. An eye wash station and safety shower should be within close proximity. Take all precautions to keep this material from touching skin. Wear chemical protective clothing. Don't breathe dust, fumes, gas, mist, vapors, and spray. A respirator should be worn if poor ventilation is present.

General hygiene: When using there should be no eating, drinking, or smoking. Keep this product off clothing.

Wash work clothes regularly to remove any contamination that might've occurred.

Exposure Limits:

Component	CAS #	OSHA TWA	ACGIH TWA
Phenol	108-95-2	5ppm (skin)	5ppm (skin)
Calcium Hydroxide	1305-62-0	15T 5R	
Formaldehyde	N/A	0.75 PPM	
Carbon Black	1333-86-4	3.5mg/m ³	3.5mg/m ³
Coal Dust	N/A	2.4mg/m ³ (%SiO ₂ +2 for<5%SiO ₂)	2mg/m ³
Coal Dust	N/A	10mg/m ³ (%SiO ₂ +2 for>5%SiO ₂)	
Graphite	7782-42-5	15mppcf	2mg/m ³
Mica	12001-26-2	20mppcf	3mg/m ³
Talc	14807-96-6	20mppcf	2mg/m ³
Kaolin	1332-58-7	15mg/m ³	2mg/m ³
Wood Flour	N/A	15mg/m ³	5mg/m ³

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Granular Powder	Odor: slight phenol smell	Specific gravity: N/A
Melting/Freezing Point: N/A	Boiling Point: N/A	Vapor Density: N/A
Refractive index: N/A	Soluble: Insoluble in water	Evaporation rate: None
Flash point: N/A	Auto-Ignition Temperature: N/A	
Explosive limits, LEL Vol%: N/A	Explosive limits, UEL Vol%: N/A	

SECTION 10 — STABILITY AND REACTIVITY

Stable material at normal laboratory conditions. Not reactive at normal temperature and pressure.

Avoid: Keep away from heat, flames, sparks, and sources of ignition. Keep clear of incompatible materials. Avoid dust formation.

Incompatible: Strong oxidizing agents, fluorine, and chlorine.

Hazardous Decomposition: Not known

Hazardous Polymerization: vapors of phenol and formaldehyde could be produced upon polymerization.

SECTION 11 — TOXICOLOGICAL INFORMATION**Toxicological data:**

CARBON BLACK (CAS 1333-86-4)

Acute *Oral* LD50 Rat > 8000 mg/kg

GRAPHITE (CAS 7782-42-5)

Acute *Oral* LD50 Rat > 10000 mg/kg

Other LD50 Mouse 440 mg/kg

PHENOL (CAS 108-95-2)

Acute	<i>Dermal</i>	LD50 Rabbit 850 mg/kg LD50 Rat 669 mg/kg
	<i>Oral</i>	LD50 Cat 0.1 g/kg LD50 Dog 0.5 g/kg LD50 Mouse 270 mg/kg LD50 Rat 317 mg/kg
	<i>Other</i>	LD50 Mouse 112 mg/kg LD50 Rat 460 mg/kg

FORMALDEHYDE (CAS 50-00-0)

<i>Dermal</i>	LD50 Rabbit 270 mg/kg
<i>Oral</i>	LD50 Rat 800 mg/kg
<i>Other</i>	LD50 Rat 578 mg/m ³

Acute effects: Causes burns.

Local effects: Inhalation of dusts may cause respiratory irritation.

Chronic effects: Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may

Carcinogenicity: This material is hazardous per OSHA definition. Risk of cancer can't be excluded with prolonged exposure.

IARC: Carbon Black (1333-86-4) 2B classified as possible to be carcinogenic to humans. Phenol (108-95-2) 3 not classified as carcinogenicity to humans.

ACGIH Carcinogens: Carbon Black (1333-86-4), Phenol (108-95-2), Talc (14807-96-6) A4 not classifiable as a human carcinogen.

Skin corrosion/irritation: OSHA defined as hazardous.

Mutagenicity: Phenol is a mutagen, which tested positive in in-vivo and in-vitro assays.

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity Data: Phenol (108-95-2) Aquatic

Crustacea	EC50	water flea (<i>Daphnia obtusa</i>)	4.7-6.4 mg/l, (48h)
Fish	LC50	Asiatic knifefish (<i>Notopterus notopterus</i>)	8-8.25 mg/l (96h)

Ecotoxicity: This material has components that are hazardous to aquatic life.

Environmental effects: This material is harmful to aquatic organisms.

Persistence and degradability: N/A

Bio accumulative potential: (Octanol/water partition coefficient log Kow) Phenol 1.46

SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal Waste: Disposal should be done in compliance with existing federal, state and local environmental regulations. Do not contaminate any streams, lakes, or ponds.

US RCRA Hazardous waste Ulist: Phenol (108-95-2)-U188

Empty containers: These vessels can still contain residual amounts of material and should be taken care of by a waste disposal company.

SECTION 14 — TRANSPORT INFORMATION

United States Department of Transportation: NOT regulated as dangerous good.

Hazard class: N/A UN number: N/A Packing Group: N/A

AIR (ICAO/IATA): NOT regulated as a dangerous good.

SECTION 15 — REGULATORY INFORMATION

U.S. Federal Regulations: This product is a hazardous chemical per OSHA standard, 29 CFR 1910.1200

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration: PHENOL (CAS 108-95-2) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance: PHENOL (CAS 108-95-2) Listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): regulated.

CERCLA (Superfund) reportable quantity: PHENOL: 1000 lbs FORMALDEHYDE 100 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories:

Immediate Hazard - Yes

Delayed Hazard - Yes

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

Section 302 extremely hazardous substance

Chemical	CAS#	Reportable quantity	Threshold planning quantity	Threshold planning quantity lower value	Threshold planning quantity upper value
Phenol	108-95-2	1000		500lbs	10000lbs
Formaldehyde	50-00-0	100	500lbs		

SARA 311/312 Hazardous chemical: Yes

US state regulations: WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

FORMALDEHYDE (CAS 5-00-0) Listed.

CARBON BLACK (CAS 1333-86-4) Listed: February 21, 2003 Carcinogenic.

US - New Jersey RTK - Substances: Listed substance

CARBON BLACK (CAS 1333-86-4) Listed.

FORMALDEHYDE (CAS 5-00-0) Listed.

GRAPHITE (CAS 7782-42-5) Listed.

Mica (CAS 12001-26-2) Listed.

PHENOL (CAS 108-95-2) Listed.

TALC (CAS 14807-96-6) Listed.

US. Massachusetts RTK - Substance List

CARBON BLACK (CAS 1333-86-4)

FORMALDEHYDE (CAS 5-00-0) Listed.

GRAPHITE (CAS 7782-42-5)

Mica (CAS 12001-26-2)

PHENOL (CAS 108-95-2)

TALC (CAS 14807-96-6)

US. Pennsylvania RTK - Hazardous Substances

CARBON BLACK (CAS 1333-86-4) Listed.

FORMALDEHYDE (CAS 5-00-0) Listed.

GRAPHITE (CAS 7782-42-5) Listed.

Mica (CAS 12001-26-2) Listed.

PHENOL (CAS 108-95-2) Listed.

TALC (CAS 14807-96-6) Listed.

US. Rhode Island RTK

FORMALDEHYDE (CAS 5-00-0) Listed.

PHENOL (CAS 108-95-2)

SECTION 16 — OTHER INFORMATION

The data and information as stated was furnished by the manufacturer/vendor/supplier of this product. Alpha Resources Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.