

SECTION 1: Identification

1.1. Identification

Product form	: Mixture
Product name	: Phenolic Molding Material
Product code	: 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

1.2. Recommended use and restrictions on use

Use of the substance/mixture	: Laboratory chemicals
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1.3. Supplier

Alpha Resources LLC
3090 Johnson Rd.
Stevensville, Michigan 49127
USA
T (269)465-5559
info@alpharesources.com - www.alpharesources.com

1.4. Emergency telephone number

Emergency number	: CHEMTREC Emergency Phone Number: (800) 424-9300
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SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 1	H314	Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Carcinogenicity Category 1A	H350	May cause cancer
Full text of H statements : see section 16		

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H350 - May cause cancer

Precautionary statements (GHS US)

: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep 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.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P310 - Immediately call a poison center or doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label).

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P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	CAS-No.: 14807-96-6	0 – 20	Carc. 1A, H350
Carbon black ; Acetylene black	CAS-No.: 1333-86-4	1 – 12	Carc. 2, H351
CALCIUM HYDROXIDE	CAS-No.: 1305-62-0	0 – 10	Skin Corr. 1, H314 Eye Dam. 1, H318
Phenol ; Hydroxybenzene	CAS-No.: 108-95-2	1 – 4	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Phenolic Molding Material	
No additional information available	
Talc (Mg3H2(SiO3)4) (14807-96-6)	
No additional information available	
Carbon black ; Acetylene black (1333-86-4)	
No additional information available	
Phenol ; Hydroxybenzene (108-95-2)	
No additional information available	
CALCIUM HYDROXIDE (1305-62-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Calcium hydroxide
ACGIH OEL TWA	5 mg/m ³
Remark (ACGIH)	TLV® Basis: Eye, URT, & skin irr

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CALCIUM HYDROXIDE (1305-62-0)	
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Calcium hydroxide
OSHA PEL TWA [1]	15 mg/m ³ (Total dust) 5 mg/m ³ (Respirable fraction)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: granules.
Color	: Colorless
Odor	: slight
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: Insoluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available

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Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Talc (Mg₃H₂(SiO₃)₄) (14807-96-6)

LD50 oral rat	> 5000 mg/kg Source: ECHA
LD50 dermal rat	> 2000 mg/kg Source: ECHA
LC50 Inhalation - Rat (Dust/Mist)	> 2.1 mg/l Source: ECHA

Carbon black ; Acetylene black (1333-86-4)

LD50 oral rat	> 8000 mg/kg Source: ECHA
LD50 dermal rabbit	> 8000 mg/kg Source: ECHA
LC50 Inhalation - Rat	> 4.6 mg/m ³

Phenol ; Hydroxybenzene (108-95-2)

LD50 oral rat	340 mg/kg Source: ECHA
LD50 dermal rabbit	660 mg/kg Source: ECHA
ATE US (oral)	340 mg/kg body weight
ATE US (dermal)	660 mg/kg body weight

CALCIUM HYDROXIDE (1305-62-0)

LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)
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CALCIUM HYDROXIDE (1305-62-0)	
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LC50 Inhalation - Rat	> 6.04 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method)

Skin corrosion/irritation : Causes severe skin burns.

Phenol ; Hydroxybenzene (108-95-2)	
pH	6 Source: HSDB

CALCIUM HYDROXIDE (1305-62-0)	
pH	12.4 Source: HSDB

Serious eye damage/irritation : Causes serious eye damage.

Phenol ; Hydroxybenzene (108-95-2)	
pH	6 Source: HSDB

CALCIUM HYDROXIDE (1305-62-0)	
pH	12.4 Source: HSDB

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer.

Talc (Mg3H2(SiO3)4) (14807-96-6)	
IARC group	3 - Not classifiable

Carbon black ; Acetylene black (1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans

Phenol ; Hydroxybenzene (108-95-2)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

CALCIUM HYDROXIDE (1305-62-0)	
NOAEL (oral,rat,90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Aspiration hazard : Not classified
Viscosity, kinematic : Not applicable
Symptoms/effects after skin contact : Burns.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : Burns.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

Talc (Mg3H2(SiO3)4) (14807-96-6)	
LC50 - Fish [1]	89581.016 mg/l Source: ECHA
EC50 96h - Algae [1]	7202.7 mg/l Source: ECHA

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Carbon black ; Acetylene black (1333-86-4)	
LC50 - Fish [1]	> 1000 mg/l Source: NITE
ErC50 algae	> 10000 mg/l Source: EHCA

Phenol ; Hydroxybenzene (108-95-2)	
LC50 - Fish [1]	8.9 mg/l Source: ECHA
EC50 - Crustacea [1]	3.1 mg/l Source: ECHA
EC50 96h - Algae [1]	61.1 mg/l Source: ECHA

CALCIUM HYDROXIDE (1305-62-0)	
LC50 - Fish [1]	50.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	49.1 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	184.57 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC (chronic)	32 mg/l Test organisms (species): Crangon septemspinosa Duration: '14 d'

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Talc (Mg3H2(SiO3)4) (14807-96-6)	
Partition coefficient n-octanol/water (Log Pow)	-9.4 Source: ECHA

Phenol ; Hydroxybenzene (108-95-2)	
Partition coefficient n-octanol/water (Log Pow)	1.47 Source: ECHA

12.4. Mobility in soil

Phenol ; Hydroxybenzene (108-95-2)	
Mobility in soil	14 – 73 Source: ECHA

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

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TDG

Transport hazard class(es) (TDG) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable

Packing group (TDG) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

No data available

TDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	14807-96-6	Present	Active	
Carbon black ; Acetylene black	1333-86-4	Present	Active	
Phenol ; Hydroxybenzene	108-95-2	Present	Active	
CALCIUM HYDROXIDE	1305-62-0	Present	Active	

Phenol ; Hydroxybenzene (108-95-2)

Subject to reporting requirements of United States SARA Section 313
Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	1000 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb 500lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form

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15.2. International regulations

CANADA

Talc (Mg₃H₂(SiO₃)₄) (14807-96-6)

Listed on the Canadian DSL (Domestic Substances List)

Carbon black ; Acetylene black (1333-86-4)

Listed on the Canadian DSL (Domestic Substances List)

Phenol ; Hydroxybenzene (108-95-2)

Listed on the Canadian DSL (Domestic Substances List)

CALCIUM HYDROXIDE (1305-62-0)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Talc (Mg₃H₂(SiO₃)₄) (14807-96-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Carbon black ; Acetylene black (1333-86-4)

Listed on IARC (International Agency for Research on Cancer)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Phenol ; Hydroxybenzene (108-95-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

CALCIUM HYDROXIDE (1305-62-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

Carbon black ; Acetylene black (1333-86-4)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

SECTION 16: Other information

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Full text of H-phrases	
H302	Harmful if swallowed
H311	Toxic in contact with skin

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Full text of H-phrases	
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H350	May cause cancer
H351	Suspected of causing cancer

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.