



Safety Data Sheet

Material: Phenolic Sheet Molding Compound

Version: GHS 1.1

Date of issue:
5/19/25

SECTION 1: Identification of substance/mixture and of the company/undertaking

1.1 GHS Product identifier

Phenolic Sheet Molding Compound

1.2 Other means of identification

AS87XX (XX=0-99)

1.3 Recommended use of the chemical and restrictions on use

Thermoset molding compound for injection and compression molding.

1.4 Supplier's details

Mar-Bal Inc.
787 Renaissance Parkway
Painesville, OH 44077
Phone: (440)-709-1371
Fax: (440) 358-1519

1.5 Emergency phone number

Phone: (440) 543-7526 7:00am-6:00pm (Eastern Standard Time, UTC-05:00)

SECTION 2: Hazards identification

2.1 Classification of the substance of mixtures

Acute Toxicity (Inhalation), Category 4, H332
Skin corrosion/irritation, Category 2, H315
Serious eye damage/eye irritation, Category 2A, H319
Carcinogenicity, Category 2, H351
STOT-Single exposure, Category 3, H336

2.2 GHS label elements, including precautionary statements

Hazard Pictograms



Signal Word

Warning

Hazard Statements

H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H370 Causes damage to organs: (eyes)
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
(eyes, gastrointestinal tract, heart, kidneys, liver, lungs, skin)



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- Precautionary Statements
- P201 – Obtain special instructions before use.
 - P202 – Do not handle until all safety precautions have been read and understood.
 - P261 – Avoid breathing dust/fume.
 - P264 – Wash hands and exposed skin thoroughly after handling.
 - P271 – Use only outdoors or in a well-ventilated area.
 - P280 – Wear protective gloves/protective clothing/eye protection/face protection.
 - P312 – Call a POISON CENTER/doctor/local medical center if you feel unwell.
 - P321 – Specific treatment (see Section 4: First-aid measures).
 - P405 – Store locked up.
 - P308+P313 – If exposed or concerned: Get medical advice/attention.
 - P302+P352 – If on skin: Wash with plenty of water.
 - P304+P340 – If inhaled: Remove person to fresh air and keep comfortable for breathing.
 - P305+P351+P360 – 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.
 - P332+P313 – If skin irritation 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.
 - P403+P233 – Store in a well-ventilated place. Keep container tightly closed.
 - P501 – Dispose of contents/container in accordance with local, state, and federal regulations.

SECTION 3: Composition/information on ingredients

Mixture

Material	CAS #	Weight %
Phenol, polymer with formaldehyde	9003-35-4	Proprietary Information
Phenol	108-95-2	Proprietary Information
Sodium p-Toluenesulfonate	657-84-1	Proprietary Information
Alkyl Phosphate Sodium Salt	**	<5
Hydroxylamine, nitrate	13465-08-2	<5
Fibrous Glass	65997-17-3	50-75

* The exact percent will vary by product.

**The specific chemical identity/proportion of this component is considered trade secret information in accordance with 29 CFR 1910.1200.

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

- General Information: In case of accident or if you feel unwell seek medical advice (show label or SDS where possible)
- After inhalation: Allow victim to breathe fresh air. Allow the victim to rest.



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- After contact with skin: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
- After contact with the eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- After swallowing: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2 Most important symptoms/effects, acute and delayed

- After contact with skin: Causes skin irritation, can cause allergic reaction
- After contact with the eyes: Causes serious eye irritation

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

- Suitable media: Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable media: None known.

5.2 Specific hazards arising from the chemical

- Combustion products: Carbon monoxide, carbon dioxide and unidentified organic compounds will be evolved when this material undergoes combustion

5.3 Special protective actions for fire-fighters

- Firefighting: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Use water to cool fire exposed containers.
- Protection: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures.

- Non-emergency personnel: Evacuate unnecessary personnel
- Emergency responders: Use personal protective equipment (PPE) to protect against inhalation of vapors. Wear gloves and long sleeves, avoid contact with skin. Use eye protection. See Section 8: Exposure controls/personal protection

6.2 Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if material enters sewers or public waters.

6.3 Methods and materials for containment and cleaning up



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On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Safe handling: Wash hands and other exposed area with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

General hygiene: Wash hands and other exposed areas thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool place. Keep in a dry and well-ventilated place. Keep away from sources of ignition. For extended storage, store below 0°C.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

	OSHA PEL	ACGIH TLV
Phenol (108-95-2)	8hr TWA 7.8ppm 15min STEL 16ppm	8hr TWA 7.8ppm 15min STEL 16ppm

8.2 Appropriate engineering controls

Use with adequate ventilation and utilize personal protection equipment (PPE) if exposure limits are exceeded. Point source exhaust recommended to remove vapors evolved during use.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment: Avoid all unnecessary exposure

Hand protection: Wear Protective gloves.

Eye protection: Safety glasses.

Skin and body protection: Not typically required.

Respiratory protection: Not typically required.

Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Solid

Appearance: Fibrous, soft, tacky mass in sheet form of various colors.



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Color:	Various colors
Odor:	Phenolic
Odor threshold:	No data available
pH:	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas):	No data available
Explosive limits:	No data available
Vapor pressure:	No data available
Relative vapor density at 20°C	No data available
Relative density:	2
Solubility:	No data available
Partition coefficient: n-octanol/water. Log Kow:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Not reactive under normal handling and storage conditions.

10.2 Chemical stability

Expected to be stable at normal temperatures and under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal handling and storage conditions.

10.4 Conditions to avoid

Direct sunlight. Storage at high temperatures or exposure to open flames. High temperature will induce non-violent polymerization.

10.5 Incompatible materials

Strong oxidizing and reducing agents and strong acids and alkalis.

10.6 Hazardous decomposition products

Carbon dioxide, carbon monoxide. No hazardous decomposition products when stored and handled correctly.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Data is not available



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Styrene (100-42-5)

LD50 Oral rat 2,650 mg/kg
LD50 Dermal rat > 26.4 mm/kg
LC50 Inhalation rat 11.8 mg/l/4h
LC50 Inhalation rat (ppm) 2,770 ppmV/4h

Vinyl toluene (25013-15-4)

LD50 Oral rat 3,275 mg/kg
LD50 Dermal rabbit > 4,400 mg/kg
LC50 Inhalation rat 16.891 mg/l/4h

Skin corrosion/irritation: May cause skin irritation.
Serious eye damage/irritation: Contact may cause eye irritation.
Respiratory or skin sensitization: Data is not available
Germ cell mutagenicity: Data is not available
Carcinogenicity: Data is not available

Phenol acute toxicity

(Rat LD50 Oral) = 317mg/kg
(Rat LD50 Inhalation) = 0.9mg/L
(Rat LD50 Dermal) = 707 mg/kg

Phenol acute toxicity

LD50 (Oral) >2000mg/kg (Rat)
LC50 (Inhalation) >90mg/liter/8h (Rat)
LD50 (Dermal) >2000 mg/kg (Rat)

Reproductive toxicity

None

Specific target organ toxicity – single exposure

Irritating to respiratory system

Specific target organ toxicity – repeated exposure

No data available.

Aspiration hazard

None.

11.7 Information on the likely routes of exposure

Inhalation, Ingestion, Skin, and eye contact.

11.15 Other information



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Breathing excessive concentration of vapor may cause dizziness and /or drowsiness.

SECTION 12: Ecological information

12.1 Toxicity

No data available

Phenol acute toxicity

(Rat LD50 Oral) = 317mg/kg

(Rat LD50 Inhalation) = 0.9mg/L

(Rat LD50 Dermal) = 707 mg/kg

Phenol acute toxicity

LD50 (Oral) >2000mg/kg (Rat)

LC50 (Inhalation) >90mg/liter/8h (Rat)

LD50 (Dermal) >2000 mg/kg (Rat)

12.2 Persistence and degradability

Contains components that are likely to be persistent in the environment

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

SECTION 13: Disposal considerations

13.1 Disposal methods

Waste disposal recommendations: Burn in a chemical incinerator equipped with an afterburner and scrubber. Material is classified as hazardous waste under the Hazardous Waste Regulations 2005 (as amended). Contact a licensed professional waste disposal service to dispose of this material.

Ecology – waste materials: Avoid release to the environment

SECTION 14: Transport information

United State Department of Transportation – Not dangerous goods

Canadian Transportation of Dangerous Goods – Not dangerous goods

ICAO/IATA – Not dangerous goods



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IMO/IMDG – Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

- Health & Safety at Work etc. Act 1974
- Control of Substances Hazardous to Health Regulations 2002 (as amended)
- Classification, Labelling and Packaging of Substances and Mixtures Regulations 2008 (as amended)
- EH40/2005 Workplace Exposure Limits (as amended)
- Environmental Protection Act 1990
- Hazardous Waste Regulations 2005 (as amended)

SECTION 16: Other information

HMIS Rating

Health:	3
Fire Hazard:	1
Reactivity:	0
Personal Protection:	B

NFPA

Health:	1
Fire:	1
Reactivity:	0
Special:	NA

Test of H-code(s) mentioned in Section

- H301 Toxic if swallowed
- H302 Harmful if swallowed
- H311 Toxic in contact with skin
- H314 Causes severe skin burns and eye damage
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H319 Causes serious eye irritation
- H331 Toxic if inhaled
- H341 Suspected of causing genetic defects
- H351 Suspected of causing cancer
- H373 May cause damage to organs
- H400 Very toxic to aquatic life

16.1 Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS