

787 RENAISSANCE PARKWAY PAINESVILLE, OH 44077



Version: GHS 1.5

Safety Data Sheet

Material: Bulk and extruded molding compounds, All grades.

Date of issue: 3/27/2019

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

1.1 GHS Product identifier

Bulk and extruded molding compounds, All grades.

1.2 Other means of identification

MB500, MB1000-PC, MB1000-10, MB1000-15, MB1000-20, MB1000-25 MB2000-5, MB2000-8, MB2000-10, MB2000-15, MB2000-25, MB2000-30 MB3000-15, MB3000-25, MB3000-15NY, MB3000-20NY MB4000, MB5500, MB6000, MB7000, MB9000-5, MB10000-45 (3-87-5)

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 Hazard Statements

Warning

H332 – Harmful if inhaled H315 – Causes skin irritation

H319 – Causes serious eye irritation H351 – Suspected of causing cancer

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H336 – May cause drowsiness or dizziness

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

<u> </u>		
Material	CAS#	Weight %
Styrene (vinyl benzene, ethenylbenzene)	100-42-5	0-10
Vinyl Toluene	25013-15-4	0-5
Calcium Carbonate	1317-65-3	0-60
Aluminum Trihydrate	21645-51-2	0-60
Fiberous Glass	65997-17-3	5-45

^{*} The exact percent will vary by product.

SECTION 4: First-aid measures

4.1 Decription 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 several 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 inhalation: Inhalation of vapors may cause central nervous system (CNS) depression,

respiratory tract irritation and coughing.

After contact with skin: Causes skin irritation

After contact with the eyes: Causes serious eye irritation

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

If decomposition products are inhaled in a fire, symptoms may be delayed. The person exposed to fumes or decomposition products may need to be kept under medical surveillance.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Suitable media: Dry powder. Carbon dioxide. Water spray. Product is not flammable; use

extinguishing agent appropriate for surrounding fire.

Unsuitable media: Do not use a heavy water stream.

5.2 Specific hazards arising from the chemical

Combustion products: Carbon monoxide, carbon dioxide. Material will release styrene vapors. Styrene

vapors can flow along surfaces, reach distant ignition sources and flash back.

5.3 Special protective actions for fire-fighters

Fire-fighting: 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

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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

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: Keep only in original container in a cool, well ventilated place. Keep container

closed when not in use. Store in a cool, dry place below 20°C (68°F).

Incompatible products: Strong bases, strong acids.

Incompatible materials: Sources of ignition. Direct sunlight. Sources of heat.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

	OSHA PEL	ACGIH TLV
Styrene (100-42-5)	TWA 100ppm	TWA 20ppm
	Ceiling 200ppm	STEL 40ppm
	600 ppm (5-min max peak in any 3 hrs)	
Vinyl Toluene (25013-15-4)	TWA 100ppm (480 mg/m ³)	TWA 50ppm
		STEL 100ppm
Calcium Carbonate (1317-65-3)	TWA 15 mg/m³ (total)	Total dust, 10 mg/m ³
	TWA 5 mg/m³ (resp)	(<1% silica)
Aluminum Trihydrate (21645-51-2)	TWA 15 mg/m ³ (total)	Total dust, 10 mg/m ³
	TWA 5 mg/m ³ (resp)	
Fiberous glass (65997-17-3)	TWA 15 mg/m ³ (total)	TWA 5 mg/m ³ (inhalable)
	TWA 5 mg/m³ (resp)	TWA 1 fiber/cm ³ (respirable)

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.

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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 bulky mass or solid extrusion of various

colors.

Color: Various colors

Odor: Odor of styrene or vinyl toluene. Characteristic. Aromatic.

Odor threshold: 0.01 – 0.1 ppm
pH: No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
No data available

Relative evaporation rate (butyl acetate=1) Styrene: 0.49; Vinyl toluene: Less than 0.5

Flammability (solid, gas): No data available

Explosive limits: Styrene: UEL 6.8%, LEL 0.9%; Vinyl toluene: UEL 11%, LEL 0.8%

Vapor pressure: Styrene: 5 mmHg; Vinyl toluene: 1 mmHg Relative vapor density at 20°C Styrene: 3.6; Vinyl toluene: 4.1

Relative density: 1.7 - 2.2

Solubility:

Partition coefficient: n-octanol/water. Log Kow:
Auto-ignition temperature:

Decomposition temperature:

Viscosity

No data available
No data available
No data available

9.2 Other information

VOC content: <12%

SECTION 10: Stability and reactivity

10.1 Reactivity

Not reactive under normal handling and storage conditions.

10.2 Chemical stability

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Is stable under normal handling and 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 alkalies.

10.6 Hazardous decomposition products

Carbon dioxide, carbon monoxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Data is not available

Styrene (100-42-5)		
LD ₅₀ Oral rat	2,650 mg/kg	
LD ₅₀ Dermal rat	> 26.4 mm/kg	
LC ₅₀ Inhalation rat	11.8 mg/l/4h	
LC ₅₀ Inhalation rat (ppm)	2,770 ppmV/4h	
Vinyl toluene (25013-15-4)		
LD ₅₀ Oral rat	3,275 mg/kg	
LD ₅₀ Dermal rabbit	> 4,400 mg/kg	
LC ₅₀ 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

	IARC	NIP	USHA
Styrene (100-42-5)	Group 2B – Possibly	Reasonably anticipated	OSHA Select Carcinogens
3tyrene (100-42-3)	carcinogenic to humans	to be human carcinogens	list
	Group 3 – Not classifiable	No data available	No data available
Vinyl toluene (25013-15-4)	as carcinogenic to		
	humans.		

Reproductive toxicity: Data is not available

STOT-Single exposure: May cause drowsiness or dizziness. May cause respiratory irritation

STOT-Repeated exposure Data is not available

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Aspiration hazard: Data is not available

11.7 Information on the likely routes of exposure

Inhalation, Ingestion, Skin and eye contact.

11.15 Other information

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

SECTION 12: Ecological information

12.1 Toxicity

No data available

Styrene (100-42-5)			
LC ₅₀ fish 1	3.24 – 4.99 mg/l (Exposure time: 96 h – Species: Pimephales promelas [flow through])		
EC ₅₀ Daphnia 1	3.3 – 7.4 mg/l (Exposure time: 48 h – Species: Daphnia magna)		
EC ₅₀ other aquatic	1.4 mg/l (Exposure time: 72 h – Species: Pseudokirchneriella subcapitata)		
organisms 1			
LC ₅₀ fish 2	19.03 – 33.53 mg/l (Exposure time: 96 h – Species: Lepomis macrochirus [static])		
EC ₅₀ other aquatic	0.72 mg/l (Exposure time: 96 h – Species: Pseudokirchneriella subcapitata)		
organisms 2			
NOEC (acute)	44 mg/kg (Exposure time: 14 Days – Species: Eisenia foetida [soil dry weight])		
Vinyl toluene (25013-15-4)			
EC ₅₀ fish 1	4 – 10 mg/l (Exposure time: 96 h – Species: Pimephales promelas [fathead minnow])		
EC ₅₀ algae	4.9 mg/l (Exposure time: 72 h – Species: Selenastrum capricornutum)		
EC ₅₀ Daphnia	4.7 mg/l (Exposure time 48 h – Species: Daphnia magna)		

12.2 Persistence and degradability

Styrene is readily biodegradable in aerobic conditions. Styrene readily volatilizes to the atmosphere. Half-life in water is estimated at 4 hours.

12.3 Bioaccummulative potential

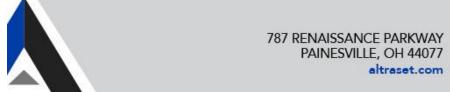
Sty	rene (100-42-5)	
BCF	F fish	13.5
Log	g Kow	2.95

12.4 Mobility in soil

No data available

SECTION 13: Disposal considerations

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13.1 Disposal methods

Waste disposal recommendations: Dispose in a safe manner in accordance with local, state and federal

regulations.

Ecology – waste materials: Avoid release to the environment

SECTION 14: Transport information

United State Department of Transportation – Not regulated Canadian Transportation of Dangerous Goods – Not regulated ICAO/IATA – No data available IMO/IMDG – No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question United States EPA Toxic Substances Control Act of 1976

All components of this material are listed on the US Toxic Substances Control Act (TSCA) inventory.

CERCLA, SARA Title III, EPCRA 302. Emergency Response Planning

Components not on reporting list.

CERCLA, SARA Title III, EPCRA 311/312. Hazard category

Acute health hazard, chronic health hazard.

CERCLA, SARA Title III, EPCRA 313. Toxic Chemical List.

Components on reporting list. Styrene. RQ 1,000 lbs.

OSHA

Hazardous by definition of Hazard Communication Standard (29CFR 1910.1200)

State of California Proposition 65

Components not on list of chemicals known to the State of California to cause cancer or reproductive toxicity.

Canadian Environmental Protection Act. Domestic Substances List

Components on reporting list. Styrene.

EEC inventory EINECS(European INventory of Existing Commercial Chemical Substances)

Components on reporting list. Styrene.

SECTION 16: Other information

HMIS Rating		NFPA	
Health:	2	Health:	1

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Fire Hazard:	1
Reactivity:	0
Personal Protection:	В

Fire:	1
Reactivity:	0
Special:	NA

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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

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