

SAFETY DATA SHEET

SECTION 1 - Material identification and information

MANUFACTURER,S NAME

Polyply Composites LLC

EMERGENCY TELEPHONE NO.

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ADDRESS

1540 Marion Street, Grand Haven, MI 49417

PRODUCT NAMES

Sheet Molding Compound (SMC)

Bulk Molding Compound (BMC)

FIBERGLASS REINFORCED POLYESTER

FRP,GRP

CHEMICAL NAME

POLYESTER RESIN, MINERAL & GLASS FILLED

CHEMICAL FAMILY

UNSATURATED POLYESTER / STYRENE / FIBERGLASS

SECTION 2 - Hazard(s) identification

GHS

Hazard pictograms:



Signal word:

DANGER

Hazard statements:

Causes skin irritation

Causes serious eye irritation

May cause cancer

Precautionary statements:

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wash hands and other exposed areas thoroughly after handling

Wear protective gloves/protective clothing/eye protection

If on skin: Wash with plenty of water

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing

If skin irritation occurs: Get medical advice/attention

If eye irritation persists: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Store in a well ventilated place. Keep cool.

Dispose of contents/containers in accordance with local, state and federal regulations

SECTION 3 - Composition/information on ingredients

Proprietary Mixture of Polyester Resins, Metal Oxides, Hydroxides, and Stearates, Fiberglass,

Name	CAS#	%	Classification
Styrene	CAS No 100-42-5	5 - 20	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 1B, H350
Carbon black	CAS No 1333-86-4	0 - 0.5	Carc. 2, H351

SECTION 4 - First-aid measures

Inhalation: Remove exposed person to fresh air. If breathing is difficult, Seek medical attention.

Eyes: Flush with tepid water for at least 20 minutes, holding the eyelids wide open. Seek medical attention if irritation develops.

Skin: Wash thoroughly with mild soap and water. Seek medical attention if irritation develops.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention

SECTION 5 - Fire-fighting measures

Suitable extinguishing media: Dry powder. Carbon dioxide. Water spray.
Use extinguishing agent appropriate for surrounding fire.

SECTION 6 - Accidental release measures

Evacuate unnecessary personnel.
Equip cleanup crew with proper protection.
Ventilate area.
Prevent entry to sewers and public waters. Notify authorities if material enters sewers or public waters.

SECTION 7 - Handling and Storage

Precautions for safe handling:

Wash hands and other exposed areas 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.

Storage conditions:

Keep only in the original container in a cool, well ventilated place.
Keep container closed when not in use
Keep away from sources of ignition and direct sunlight.

Incompatible products/materials:

Strong bases. Strong acids.

SECTION 8 - Exposure controls/personal protection

Carbon black (1333-86-4)

ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³ (inhalable fraction)
OSHA	OSHA PEL (TWA) (mg/m ³)	3.5 mg/m ³

Styrene (100-42-5)

ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (ppm)	40 ppm
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm

Appropriate engineering controls:

Ensure that proper ventilation is provided to maintain exposures below regulated limits.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Protective gloves, such as latex, are recommended.

Eye protection:

Safety glasses are recommended.

Respiratory protection:

Not typically required. If airborne exposures exceed recommended limits wear a NIOSH approved respirator.

SECTION 9 - Physical and chemical properties

Physical state	Solid
Color	Any
Odor	Pungent odor
Odor threshold	0.1 ppm
pH	Not available
Melting point	Not available
Boiling point	Not available
Flash point	Not available
Relative evaporation rate (butyl acetate=1)	Not available
Flammability (solid, gas)	Not available
Explosion limits	1.1% - 6.1%
Vapor pressure	4.5
Relative density	1.5 - 2.2
Vapor density	3.6 (Air=1)
Vapor pressure	4.4
Solubility	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

SECTION 10 - Stability and reactivity

This product is not reactive under normal handling and storage conditions.

This product is stable under normal handling and storage conditions.

Avoid direct sunlight, extremely high or low temperatures. High temperatures will induce non - violent polymerization.

Avoid peroxides and polymerization initiators.

Hazardous decomposition - toxic fumes. carbon monoxide. carbon dioxide

SECTION 11 - Toxicological information**Styrene (100-42-5)**

LD50 oral	Rat	2650 mg/kg
LC50 inhalation Vapor	Rat	11800 mg/l/4h
LC50 inhalation Gas	Rat	2700 ppm

IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen
In OSHA Hazard Communication Carcinogen list	Yes

Carbon black (1333 - 86 - 4)

IARC group	2B - Possibly carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity	Not classified
Specific target organ toxicity (single or repeated exposure)	Not classified
Aspiration hazard	Not classified
Potential Adverse human health effects and symptoms	No additional information available
Symptoms/injuries after inhalation	Inhalation of vapors may cause CNS depression, respiratory tract irritation and coughing.
Symptoms/injuries after skin contact	Causes skin irritation.
Symptoms/injuries after eye contact	Causes serious eye irritation.

SECTION 12 - Ecological information**Styrene (100-42-5)****Toxicity to fish**

LC50 : 4,02 mg/l Exposure time : 96 h Species : Pimephales promelas (fathead minnow) flow - through test Test substance : yes Toxic to fish.

Toxicity to daphnia and other aquatic invertebrates

EC50 : 4,7 mg/l Exposure time : 48 h Species : Daphnia magna (Water flea) flow - through test

Toxicity to algae

EC50 : 4,9 mg/l Exposure time : 72 h Species : Selenastrum capricornutum (algae)

Toxicity to bacteria

EC10 : 0,28 mg/l Exposure time : 96 h Growth rate Species : Skeletonema costatum (Marine Algae)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

NOEC : 1,01 mg/l Exposure time : 21 d Species : Daphnia magna (Water flea) semi - static test Test substance : yes Method : OECD Test Guideline 211

SECTION 13 - Disposal considerations

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

SECTION 14 - Transport information

Department of Transportation (DOT) In accordance with DOT Not regulated for transport

SECTION 15 - Regulatory information

All constituents are in compliance with the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard Delayed (chronic) health hazard

Carbon black (1333 - 86 - 4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Styrene (100-42-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on United States SARA Section 313

SARA Section 313 - Emission Reporting 0.1 % de minimis

SECTION 16 - Other information

All of the information, suggestions, and recommendations pertaining to the properties and uses of the Polyply Composites LLC product described herein are believed to be accurate, however, the final determination regarding the suitability of any material described herein for the use contemplated, the manner of use, and whether the use infringes on any patents is the sole responsibility of the user. THERE IS NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR USE. Under no circumstances shall we be liable for incidental or consequential loss or damage.

FILE NAME: MSDS1 Compound

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