



Dear LEWISBins+ Customer;

Thank you for your interest in our products. You requested a Material Safety Data Sheet (MSDS) for the products we supply your facility.

Our products fall under an MSDS exemption since they are considered an "article" per the Federal Occupational Safety and Health Administration. (An excerpt of the OSHA Rule (29 C.F.R. Section 1910.1200) is printed below.)

1910.1200(b)(6)(v)(c) Hazard communication.

"Article" means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees.

To assist you in your request for material information I have included an MSDS that is typical of the base materials in the products we manufacture for your company. We cannot certify that this is from the specific manufacturer who supplied the resin at the time we produced your product but it will help you in your analysis of the material. If you should have additional questions or require additional information, please feel free to call your sales person or contact me directly at 262-560-5297. Thank you for allowing us the opportunity to be of service.

Regards,

Robert Nussbaum
Director New Product Development

Corporate Headquarters

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MATERIAL SAFETY DATA SHEET

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BMC & SMC Polyester Molding Compound
SYNONYMS: Dielectrite / Insulstruc

REVISION DATE: 06/06/2007

MANUFACTURER: Industrial Dielectrics, Inc.
407 S 7th Street, Noblesville, IN 46060

TELEPHONE: (317) 773-1766

COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT

<u>& CAS-NO.</u>	<u>% WEIGHT</u>	<u>ACGIH TLV-TWA</u>
Fiberglass	01 - 50	N.A.
Mineral Fillers	20 - 80	N.A.
Polyester Resin	10 - 40	N.A.
Polyethelene / Polystyrene	0 - 15	N.A.
Styrene Monomer 100425	01 - 20	50 PPM

HAZARDOUS IDENTIFICATION

Relevant Routes of Exposure: Eyes, Skin, Respiratory

Symptoms of Acute Overexposure:
Eyes: Irritation, blurred vision, tearing
Skin: Irritation, defatting
Respiratory: Dizziness, nausea

Acute oral (rat) and dermal (rabbit) LD50 values are estimated to be greater than 5000 mg/kg and greater than 2000 mg/kg, respectively. The 4-hour inhalation LC50 (rat) value is estimated to be greater than 20 mg/l.

Direct contact with this material may cause minimal eye and skin irritation.

Inhalation overexposure may cause irritation of the respiratory tract and eyes.

Refer to Section 11 for toxicology information on the OSHA regulated components of this product.

Inhalation overexposure to Zinc Stearate, Alumina Trihydrate, Kaolin, Calcium Metasilicate, Glass Mica, Fiberglass, Cellulose, iron oxide, Carbon black, and Talc may cause respiratory congestion and irritation.

Carcinogenicity:

NTP: N
IARC: N
OSHA: N

Statements of Hazard: Caution! May cause eye and skin irritation. May cause respiratory tract irritation, headache, dizziness, and nausea.

FIRST AID MEASURES

Eye Contact: Flush with plenty of water for 15 minutes.
Skin Contact: Wash with soap and water.
Inhalation: Remove to fresh air. Administer oxygen if there is difficulty in breathing

FIRE FIGHTING MEASURES

Suitable Extinguishing Media: H₂O, CO₂, or dry chemical

Fire Fighting Instructions: Recommend protective clothing, full face self contained MSHA / NIOSH approved breathing apparatus.

Fire And Explosion Hazards: Extended high temperatures can result in exothermic polymerization, giving off peroxides.

Flammability Classification: Limits (%by Vol.): 0.8 lower, 11 upper; (Values for Vinyl Toluene)

ACCIDENTAL RELEASE MEASURES

Where exposure level is not known, wear NIOSH approved, positive pressure, self-contained respirator. Where exposure level is known, wear NIOSH approved respirator suitable for level of exposure. Wear same protective clothing/equipment as in Section Exposure Controls/Personal Protection. Sweep up spills and place in a waste disposal container. Flush area with water.

HANDLING AND STORAGE

Handling: Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Storage: For maximum storage life and to maintain moldability, store at below 70oF (22oC). These compounds are packaged in special bags impermeable to Styrene or Vinyl Toluene. Do not puncture bag. Close tightly after partial use.

Other: May cause nuisance dust upon grinding of molded material.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Not usually necessary if good hygiene practices are followed. Before eating, drinking, or smoking wash face and hands thoroughly with soap and water. Avoid unnecessary skin contact. Cutting, grinding, or sanding parts fabricated after curing of this material may create respirable dust particles. Respiratory protection appropriate for this dust may be required. Refer to regulated component section for potential hazardous components in the dust. Gloves, long-sleeve shirt and safety glasses are recommended to prevent contact with any dust particles generated.

Ventilation Requirements: N.A.

Eye/Face Protection: Wear eye protection such as face shield.

Skin Protection: Wear impervious gloves or apron are recommended.

Respiratory Protection: None if TLV not exceeded.

General Protection: No additional information

PHYSICAL AND CHEMICAL PROPERTIES

These data do not represent technical or sales specifications.

Form:	Flexible, soft sheets or hairy doughy compound	pH:	8 – 11 (AS)
Color:	Various colors	Bulk Density:	N.A.
Odor:	Characteristic odor of Styrene or Vinyl Toluene	Relative Density/Specific Gravity:	1.7 – 2.2
Water Reaction:	N.A.	Vapour Density:	3.6 (Styrene)
Solubility:	Negligible	Flash Point:	N.A.
Vapour Pressure:	4.5 (Styrene)	Boiling Point/Range:	N.A.
Percent Volatile:	1 -20	Autoignition Temp.:	N.A.
Vapour Concentration:	N.A.	Melting Point/Range:	N.A.
		Flammable Limits in Air:	6.1% 1.1%

STABILITY AND REACTIVITY

Conditions to Avoid:	High temperatures and strong mineral acids will induce non-violent polymerization.
Incompatibility With:	Peroxides and Polymerization catalysts. Carbon monoxide and Carbon.
Hazardous Decomposition Products:	CO and Hydrocarbons
Additional reactivity/Stability Information:	None
Thermal Processing Emissions:	Not Applicable

TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under Section: Hazards Identification. Toxicological information on the OSHA regulated components of this product are as follows:

Styrene has an acute oral LD50 (rat) of 5 g/kg. The inhalation LC50 (rat) is 24 mg/l following a 4-hour exposure. Acute overexposure to styrene vapor may cause moderate eye and nasal irritations well as drowsiness, headache and central nervous system depression. Styrene is a moderate skin and eye irritant. In animal studies, Styrene induced micronuclei, sister chromatid exchanges and DNA strand breaks. In vitro tests showed Styrene to cause sister-linked recessive lethal mutations in *Drosophila* (fruit flies). Styrene has been shown to cause lung tumors in mice. Epidemiological studies of Styrene exposure in humans are not conclusive due to the inadequate control of variables.

ECOLOGICAL INFORMATION

No ecological testing has been conducted on this product.

DISPOSAL CONSIDERATIONS

The information for RCRA Waste Classification and Disposal methodology provided below applies only to the IDI product, as supplied. If the material has been altered or contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40CFR Part 261 Et Seq) is dependent upon whether a material is a RCRA “Listed Hazardous Waste” or has any of the four RCRA “Hazardous Waste Characteristics.” Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is RCRA “Listed Hazardous Waste”; information contained in Section Regulatory Information of this MSDS is not intended to indicate if the product is a “Listed Hazardous Waste” or has a RCRA Hazardous Waste Characteristic. There are four characteristics defined in 40 CFR Section 261.21-61.24: ignitability, corrosivity, reactivity, and toxicity. To determine ignitability, see Section Fire Fighting Procedures of this MSDS. For corrosivity, see Section Physical And Chemical Properties and Section Transportation Information (PH and dot corrosivity). For reactivity, see Section Stability And Reactivity (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material it is to be disposed. Industrial Dielectrics, Inc. encourages the recycle, recovery and reuse of materials, where permitted, as an

alternate to disposed as a waste. Industrial Dielectrics, Inc. recommends that organic material classified as RCRA provided the foregoing for information only; the person generating the waste is responsible for determining the waste classifications and disposal methods.

REGULATORY INFORMATION

U.S. Toxic Substances Control Act (TSCA): This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C. 2601 et seq.

OTHER INFORMATION

NFPA Codes:

Health:	1
Flammability:	1
Reactivity:	0
Other:	0

Users Responsibility/Disclaimer of Liability:

The information set forth herein is based on our current knowledge and is intended to describe the product solely with respect to health, safety and the environment. As such, it must not be interpreted as a guarantee of any specific property of the product. As a result, the customer shall be solely responsible for deciding whether said information is suitable and beneficial.

*****END OF MSDS*****