

**MATERIAL SAFETY DATA SHEET****SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** ECCOSORB® LS

**DESCRIPTION:** Polyurethane Foam impregnated with latex solution and carbon

**INTENDED USE:** **Cavity Resonance Absorber** - High-loss, flexible, carbon-impregnated urethane foam sheets.

**COMPANY NAME:** Emerson & Cuming Microwave Products, Inc.  
**ADDRESS:** 28 York Ave, Randolph, MA 02368

**EMERGENCY PHONE NUMBER** CHEMTREC USA: 1-800-424-9300  
INTERNATIONAL: 703-527-3887 (COLLECT)

**CONTACT (TITLE):** Elizabeth Sinkiewicz  
Production Manager  
781-437-1731

**DATE OF MSDS REVISION:** 09-19-2011

**SECTION 2. COMPOSITION AND INFORMATION ON INGREDIENTS**

ELEMENT	CAS NUMBER	WEIGHT PERCENT	OSHA PEL* (mg/m <sup>3</sup> )	
			TWA	STEL
Polyether/Polyurethane foam containing:				
Carbon Black	1333-86-4	< 15%	3.5	NE
Antimony Oxide(*)	1327-33-9	< 7%	0.5	NE

\*ACGIH TLVs different from OSHA PELs are shown in brackets. NE = Not Established.

(\*) Regulated by the SARA Section 313 amendments to RCRA

**SECTION 3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** Exposure to filler material listed in Section II is unlikely to occur unless machining of the cured product results in generation of dust particles. Dust may cause eye, nose and throat irritation.

**POTENTIAL HEALTH EFFECTS**

**INHALATION:** Inhalation of dusts resulting from machining of cured material may be irritating to eyes, nose and throat.

**INGESTION:** Ingestion of dust or small pieces of material may be harmful

**SKIN:.** Not established.

**EYES:** May be irritating to eyes.

**CHRONIC HEALTH EFFECTS:** Inhalation of carbon Black may cause cough, phlegm, tiredness, chest pain, and headache. However, Effects of Chronic Overexposure: Exposure to filler material listed in Section II is unlikely to occur unless machining of the cured product results in generation of dust particles.

**TARGET ORGANS:** respiratory system, eyes, skin

**CARCINOGENICITY:** IARC-2B; MAK-3B; NIOSH-Ca; TLV-A4 (Carbon Black)

California Proposition 65 Information:  
**WARNING:** This product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm: Carbon Black

**CONDITIONS AGGRAVATED BY EXPOSURE:** NA

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**SECTION 4. EMERGENCY AND FIRST AID MEASURES**

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**INHALATION:** Remove victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

**INGESTION:** DO NOT induce vomiting. Administer Hemlich Maneuver if victim is choking. Get immediate medical attention.

**SKIN:** Wash immediately with plenty of soap and water.

**EYES:** Immediately flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get medical attention.

**MEDICAL TREATMENT:** Treat symptoms and eliminate overexposure.

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**SECTION 5. FIRE FIGHTING MEASURES**

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**Flash Point:** Not Established

**Explosive Limits:** Not Established

**Extinguishing Media:** Carbon dioxide, dry chemical, foam, water fog.

**Special Firefighting Procedures:** Firefighters should wear self-contained breathing apparatus.

**Unusual Fire/Explosion Hazards:** Toxic vapors may be evolved upon exposure to heat or open flame.

**NFPA and HMIS Rating:** No data available for this product

**Autoignition Temperature:** Not Established

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

**For small spills:** Not applicable

**For large spills:** Not applicable

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## SECTION 7. HANDLING AND STORAGE

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The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because usage conditions will vary depending on customer application, specific safe handling procedures should be developed by a person knowledgeable in the intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to use.

No special storage, ventilation, or personal hygiene precautions necessary.

**Personal Protection:** Dust masks should be used in absence of local ventilation.

**Ventilation Recommendations and Respiratory Protection:**

Good local ventilation should be used when sanding or grinding cured material to avoid inhalation of nuisance dusts.

**Storage:** Avoid prolonged direct contact with open flame, as toxic fumes may be evolved

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## SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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**VENTILATION AND ENGINEERING CONTROLS:**

Ventilation must be sufficient to maintain airborne concentrations of Section 2 ingredients below their PEL/TLV values.

**RESPIRATORY PROTECTION:**

Provide effective explosion-proof mechanical exhaust ventilation to draw vapors, mists, or fumes generated during processing away from the worker and prevent routine inhalation. Use an appropriate, properly fitted respirator if exposures exceed PEL/TLV values. The type of respiratory protection selected will depend upon the conditions of use. Observe OSHA regulations for, respiratory protection (29 CFR 1910.134).

**PROTECTIVE GLOVES:**

Wear appropriate protective gloves to minimize skin contact.

**EYE PROTECTION:**

This product can cause severe eye irritation. Prevent eye contact through the use of splash-proof chemical goggles or face shield.

**OTHER PROTECTIVE EQUIPMENT:**

If necessary, a proper chemical-resistant apron and additional impervious clothing should be used to minimize skin contact and prevent contamination of clothing. Normal work clothing should be washed before reuse.

**OTHER REQUIREMENTS:**

Wash hands and face thoroughly after handling this product and before eating, drinking or smoking. Emergency eye wash facilities and safety shower must be available.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Appearance:</b>	Black foam
<b>Odor:</b>	Not Established
<b>Volatile Organic Compound content:</b>	None
<b>Physical State:</b>	Solid
<b>Boiling Point:</b>	Not Established
<b>Vapor Pressure:</b>	None
<b>Evaporation Rate:</b>	Not Established
<b>Specific Gravity:</b>	Not Established
<b>Vapor Density:</b>	Not Established
<b>Solubility in Water:</b>	None

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**SECTION 10. STABILITY AND REACTIVITY**

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<b>Stability:</b>	Cured material: Non-reactive
<b>Incompatibility:</b>	None known.
<b>Hazardous Decomposition Products:</b>	Ammonia, oxides of nitrogen and carbon, antimony compounds, borates, traces of isocyanates and cyanides.
<b>Hazardous Polymerization:</b>	Data not available.
<b>Reactivity:</b>	Conditions to avoid: Direct contact with open flame.

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**SECTION 11. TOXICOLOGICAL INFORMATION**

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Carbon Black:

Evaluation: There is inadequate evidence in humans for the carcinogenicity of carbon black. There is sufficient evidence in experimental animals for the carcinogenicity of carbon black. There is sufficient evidence in experimental animals for the carcinogenicity of carbon black extracts. Overall evaluation: Carbon black is possibly carcinogenic to humans (Group 2B)

LD50 Rat oral /greater than/ 8000 mg/kg bw.

Antimony Oxide:

LD50 Rat oral greater than 34,600 mg/kg

LD50 Rabbit percutaneous greater than 2,000 mg/kg

LD50 Rat oral >20 g/kg

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## SECTION 12. ECOLOGICAL INFORMATION

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### Antimony Oxide (Antimony Trioxide):

Antimony is expected to exist as the trioxide in the atmosphere, since most of the atmospheric releases of antimony substances result from high temperature industrial processes, from the combustion of petroleum, petroleum products and coal, and from the incineration of products that contain antimony. At the high temperatures used in these processes, oxidation of the antimony substances occurs, resulting in the formation of antimony trioxide (and possibly also antimony tetraoxide and antimony pentoxide).

Loss of antimony oxides from water through volatilization is very unlikely under normal environmental conditions due to their very low concentration and the low concentration of their hydrolysis products, and also due to their polarity and extremely low vapor pressures.

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## SECTION 13. DISPOSAL CONSIDERATIONS

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Maximize product recovery for reuse or recycling. Waste must be disposed of in accordance with federal, state and local environmental control regulations. If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.20-24). Use may also generate liquid wastes with metal concentrations in excess of those permitted through pretreatment or direct discharge NPDES requirements. Appropriate analyses should be conducted to ensure compliance with existing wastewater permits.

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## SECTION 14. TRANSPORT INFORMATION

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<b>DOT Hazardous Material Description</b>	Not Applicable
<b>Proper Shipping Name</b>	Not Applicable
<b>Hazard Class</b>	Not Applicable
<b>ID Number</b>	Not Applicable
<b>Packing Group</b>	Not Applicable
<b>Canadian Transportation of Dangerous Goods Classification</b>	Not Applicable

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## SECTION 15. REGULATORY INFORMATION

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TSCA Status: Eccosorb LS is in compliance with TSCA Inventory listing

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## SECTION 16. OTHER INFORMATION

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Abbreviations: NA = Not Applicable      NE = Not Established      ND = Not Determined  
ppm = Parts per Million      mg/m<sup>3</sup> = Milligrams Per Cubic Meter  
C = Ceiling Concentration      STEL = Short Term Exposure Limit

Safety Information and additional MSDS: 781-961-9600

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