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Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (As Used on Label and List)
BAKELITE PREFORMS

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name LECO CORPORATION	Emergency Telephone Number (616) 983-5531
Address (Number, Street, City, State, and ZIP Code) 3000 LAKEVIEW AVENUE	Telephone Number for Information (616) 983-5531
ST. JOSEPH, MICHIGAN 49085	Date Prepared FEBRUARY 11, 1991
	Signature of Preparer (optional) <i>Dune Peterson</i>

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Chemical Name: Phenol Formaldehyde Molding Compound				
CAS# 9003-35-4 (C6H6O-CH2O)X				

Ingredients presenting a significant hazard:

Nuisance Dust (through 80 Mesh)	10mg/m ³	0-15
Phenol	5ppm	< 5
TLV/TWA for nuisance dust - 10mg/m ³ total 5mg/m ³ respirable (ACGIH)		

Section III — Physical/Chemical Characteristics

Boiling Point	N.A.	Specific Gravity (H ₂ O = 1)	See Attachment
Vapor Pressure (mm Hg.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate (Butyl Acetate = 1)	N.A.
Solubility in Water Less than 10 Moderate (% by Wt)			
Appearance and Odor Granular or pelletized material, black, brown, red or green			

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) N.A.	Flammable Limits Not Determined	LEL N.D.	UEL N.D.
Extinguishing Media Use water, dry chemical, halon, alcohol foam, carbon dioxide.			
Special Fire Fighting Procedures Do not inhale gases, wear positive pressure self-contained breathing apparatus approved by MSHA/NIOSH.			
Unusual Fire and Explosion Hazards Explosive hazard. Organic dust can be explosive when ideal conditions of concentration, humidity and source are met.			

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	Avoid dust build-up in the manufacturing area.

Incompatibility (Materials to Avoid)
None known

Hazardous Decomposition or Byproducts
See attached sheet

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	Avoid dust build-up in the manufacturing area.

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Eyes? Yes	Ingestion? Yes
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Health Hazards (Acute and Chronic)
See attached sheet

Carcinogenicity:	NTP? No	IARC Monographs? No	OSHA Regulated? No
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Signs and Symptoms of Exposure
See attached sheet

Medical Conditions
Generally Aggravated by Exposure

See attached sheet

Emergency and First Aid Procedures

See attached sheet

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Sweep or vacuum spills. To minimize dust, vacuum cleaning is preferred.

Waste Disposal Method

Not classified as Federal or RCRA Hazardous Waste per EPA Regulations of May 19, 1980.

Should be disposed of in accordance with government regulations.

Precautions to Be Taken in Handling and Storing

Observe good housekeeping practices. Contain material and prevent accumulation of dust.

Other Precautions

Although not a hazard, exposure to high temperature and/or moisture affects product performance.

Section VIII — Control Measures

Respiratory Protection (Specify Type)

A MSHA/NIOSH approved dust mask should be worn when TLV(s) are exceeded

Ventilation	Local Exhaust Recommended	Special N.A.
	Mechanical (General) Recommended	Other N.A.

Protective Gloves

Impervious gloves-neoprene or rubber

Eye Protection

Safety glasses with side shields

Other Protective Clothing or Equipment

Eye wash facility should be in close proximity.

Work/Hygienic Practices

Observe good housekeeping practices. Contain material and prevent accumulation of dust.

BAKELITE PREFORMS

(Continued)

SECTION V - Reactivity Data (Continued)

Hazardous Decomposition Products:

In the curing process of the molding compound, there may be a release of traces of phenol vapor and ammonia. Complete combustion will produce carbon dioxide and carbon monoxide.

SECTION VI - Health Hazard Data

EFFECTS OF OVEREXPOSURE:Inhalation:

Dust or vapor may be irritating to respiratory tract. Chronic effect of repeated dust or vapor inhalation is not known. No toxicity data available.

Skin:

Dust or vapors may be irritating to the skin. Repeated contact with the skin may cause dermatitis in sensitive individuals.

Eyes:

Dust or vapors may be irritating to the eyes.

Ingestion:

No toxicity data available for this material.

ACUTE: Slight toxic hazard.

FIRST AID PROCEDURES:Inhalation:

If affected, remove to fresh air. If respiration stops, give mouth-to-mouth resuscitation. GET MEDICAL ATTENTION.

Skin:

Wash thoroughly with soap and water.

Eyes:

IMMEDIATELY flush eyes with a directed stream of water for at least 15 minutes, while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. GET MEDICAL ATTENTION.

Ingestion:

DO NOT INDUCE VOMITING; Dilute by drinking large quantities of water. If vomiting occurs, administer more water. GET MEDICAL ATTENTION.

SECTION VI - Health Hazard Data (Continued)

SPECIAL PRECAUTIONS:

Treatment is symptomatic and no antidotes are known. Effects of overexposure are related to ingredients.

SECTION IX - Regulatory Status

DOT PROPER SHIPPING NAME: Plastic materials; OT expanded; Flakes;
No. 1, granular, lumps, pellets, powder or solid mass.

DOT HAZARD CLASS: Non-Hazardous

This material is not regulated under the Hazardous Materials Transportation Act, Title 49 (CFR 49) or the EPA, Resource Conservation and Recovery Act, Title 40 (CFR 40).

SECTION X - Additional Information

Permissible concentration references: ACGIH Threshold Limit Values (1985-86). OSHA Standard 29 CFR 1910.1000 (1983).

The hazard ratings according to the Hazardous Materials Identification System (HMIS):

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

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(Continued)

SECTION XI - SARA Notification

This product contains a toxic chemical or chemicals (as listed below) subject to the reporting requirements of Section 313-Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

MATERIAL OR COMPONENT

CAS#/NAME	EXPOSURE LIMITS	PERCENT	
108952	PEL=5ppm; 19mg/m3, Skin	VOL	Not Determined
Phenol	TLV=5ppm; 19mg/m3, Skin	WT	0-5

Common Names:

3118976	PEL=Not Established	VOL	Not Determined
2-Naphthanlenol,	TLV=Not Established	WT	0.50-3
1-((2,4-dimethylphenyl)azo)-			

Common Names:

French Oil Scarlet
C. I. Solvent Orange 7#

557051	PEL=Not Established	VOL	Not Determined
Octadecanoic acid,	TLV=Not Established	WT	0.40-3
zinc salt			

Common Names:

Zinc Stearate

Chemical name used in the SARA Section 313 List of Toxic Chemicals (40 CFR - Section 372.65) if different from CAS name.

SARA/TITLE III HAZARD CATEGORIES:

Immediate (ACUTE) Health: NO	Reactive Hazard: NO
Delayed (CHRONIC) Health: YES	Sudden Release of Pressure: NO
Fire Hazard: NO	

NOTICE: This notification must not be detached from this MSDS. Any copying and redistribution of this MSDS must include this notification.

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(Continued)

LECO PART NUMBERS: 811-118
811-313
811-314
811-315
811-317
811-318
811-319
811-321
811-322
811-323