

SAFETY DATA SHEET

**SECTION 1: MATERIAL IDENTIFICATION AND USE**

**Material name: Adhesive CP-0803**

Manufacturer Address  
Spectrum Adhesives Inc  
5611 Universal Drive  
Memphis, TN 38118

**Telephone #:** Product Information: 800-454-4583

**Emergency Contact: INFOTRAC 1-352-323-3500 (International)**

**1-800-535-5053 (North America)**

**\*Note: Call emergency numbers only in event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.**

**Chemical Name:** Melamine Formaldehyde Resins; Amino Resins

**Product Codes:** CP-0803

**CAS Registry No.:** Melamine Resins; 9003 -08-1 Formaldehyde; 50-00-0

**Molecular Weight:** Not Available

**Material Uses -** Wood adhesives, UF resin fortifiers, coatings

**NFPA Ratings:** health: 2 Flammability: 1 Reactivity: 0 Protection: 0  
0 weak → 4 severe

**SECTION 2: EXPOSURE HAZARDS INFORMATION**

**SIGNAL WORD: DANGER**

**WARNING**

**WARNING**

**PICTOGRAMS**

**HEALTH RISK  
CARCINOGEN**

**EXCLAMATION POINT  
SENSITIZER; IRRITANT  
SKIN, RESPIRATORY**

**MAY FORM COMBUSTIBLE  
DUST CONCENTRATIONS  
IN AIR DURING PROCESSING**



**Skin – C.4.4** causes skin irritation

**C.4.7** may cause an allergic skin reaction with repeated contact.

**Eyes- C4.5** causes serious eye irritation

**Respiratory – C.4.6** may cause allergy or asthma symptoms or breathing difficulties if inhaled.

**CARCINOGENICITY- C.4.9** May cause cancer; see chronic hazards: formaldehyde in this SDS section.

**COMBUSTIBLE DUST –** When airborne as dust or powder may ignite if exposed to ignition sources,

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sparks, flames or energy of sufficient quantity, see sections 5 and 9 of this SDS.

**FOR INDUSTRIAL USE ONLY**

**THIS RESIN CONTAINS FORMALDEHYDE WHICH IS LISTED BY CALIFORNIA PROP. 65 AS CAUSING CANCER.**

**Appearance and Odor:** White free flowing powder that will form a crust on the surface by absorbing moisture from the air. Has a slight formaldehyde, chemical odor

**Primary Routes of Entry and exposure:** Eyes, Inhalation, Skin contact

**Inhalation** – Dust or vapors can cause irritation. Inhalation may aggravate colds, allergies, asthma, emphysema and psoriasis. Material vapors maybe carcinogenic. See chronic hazards this section.

**Skin Contact** – Repeated skin contact can cause sensitization and dermatitis due to formaldehyde.

**Eye Contact** – If powder gets into eyes it can cause severe irritation.

**Ingestion** - Ingestion of material is not expected to occur during the normal use of this product. If ingested it may cause stomach and intestinal irritation, vomiting, diarrhea, sweating, weakness, and headache. Avoid swallowing if a large amount of material gets into mouth.

**CHRONIC HAZARD:** Formaldehyde is listed as a probable carcinogen by IARC and OSHA and a suspected carcinogen by NTP. Evidence is based upon animal testing and data on human is inadequate. Formaldehyde vapors have been found to be carcinogenic to animals and are considered possible carcinogenic to humans by inhalation. While the amount of formaldehyde in this product is small < 1% exposure should be minimized or avoided and recommended personal protection measures should be followed.

**IN ALL CASES WHERE SYMPTOMS AND EXPOSURE EFFECTS PERSISTS GETS MEDICAL ATTENTION.**

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

**Melamine Formaldehyde Resin:**

Concentration 82 – 86%  
CAS No.: 9003-08-1

**Formaldehyde:**

Concentration: 0.7%  
CAS No.: 50-00-0

**Wood Flour (Hardwood)**

Concentration: < 15%  
CAS No: 9004-34-6 (cellulose)  
OSHA PEL/TWA 15.0 mg/m<sup>3</sup> (total dust) 5.0 mg/m<sup>3</sup> (respirable fraction)

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ACGIH TLV: TWA 5.0 mg/m<sup>3</sup> STEL (15 minutes): 10.) mg/m<sup>3</sup>  
Carcinogen: (OSHA, NTP,IARC) YES Group 1

### **Ammonium Chloride:**

Concentration: < 2.0%  
CAS No: 12125-02-9  
Carcinogen (OSHA, NTP,IARC) No

## **SECTION 4: FIRST AID MEASURES**

**Eye Contact:** Flush eyes with water for 15 minutes. Get prompt medical attention.

**Skin Contact:** Wash effected areas for 15 minutes with soap and water while removing contaminated clothing. If skin problems occur get medical attention. Launder clothing before using them again.

**Inhalation:** Move to fresh air. Use artificial respiration if needed. Get medical attention.

**Ingestion:** Rinse mouth. Drink large quantities of water and induce vomiting. Do not give water or induce vomiting with a drowsy, convulsive, or unconscious person. Get medical attention.

## **SECTION 5: FIRE FIGHTING MEASURES**

**Flammability:** not flammable under normal conditions

**Means of Fire Extinguishions:** Removal of heat (water spray) and displacement of oxygen for combustion.

**Special Procedures:** NIOSH approved self-contained breathing apparatus. Complete skin protection. Treat as ordinary combustible powder. Possible dust explosion if dispersed in air in large quantities. If CP-0803 powder dispersion in air is likely the CP-0803 can be wetted down with water to prevent it from floating into the air as dust.

**Flash Point, °C, and method:** >200°F by Closed Cup

**Explosion:** Avoid generating dust, fine dust dispersed in the air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

### **Explosion Data**

**Minimum Explosion Concentration:** 120 g/cu.m.

**Dust Explosion Class:** St 1 Weak Explosion (Kst 0 to <=200)

**Minimum ignition Temperature:** 600°C (1112°F)

**Minimum Ignition Energy:** >= 1000 mJ

**Upper Explosion Limit, % volume:** not available

**Lower Explosion Limit, % volume:** not available

**Hazardous Combustible Products:** Carbon Dioxide-CO<sub>2</sub>, Carbon Monoxide-CO, Oxide of Nitrogen, Formaldehyde

**Rate of Burning:** Not Available

**Extinguishing Media:** Water Fog, CO<sub>2</sub>, foam, dry chemical

**Sensitivity to static discharge:** Not known

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Spill and leak procedures:** Dust Deposits should not be allowed to accumulate on surfaces as these

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may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air.) Non-sparking tools should be used. See section 8 for type of protective equipment needed. Remove ignition sources. Provide adequate protective equipment and ventilation. Surround spill with clean up material to prevent contamination of sewers, streams, ponds, or lakes by material. It is best to plan to collect spill up dry using brooms, dust pans and shovels. Collect material for reclaim and place in covered waste containers. Avoid generating dust. The material has some water solubility and wash water may have to be collected as a waste if used. Floors may become slippery with just the dry powder. The reportable quantity for formaldehyde is 100 pounds. 11,000 lbs. of this material contains 100 lbs. of non-reacted formaldehyde. Dispose of waste material as required by your local state and federal regulations.

**Containers leaks:** Leaks can be slowed by plugs. Powder will often prevent tape or glue from sticking to the surface of the container. If possible, place container on side with leak facing up to stop leak. Clean leak area with dry cloth. Try to use plug with wide tape or glue and paper to patch leak. Or if leaking container is a resin bag will it fit into a large plastic bag, garbage bag, and be contained in that. Tie off plastic bag to seal it. Clean up spilled material and dispose of as waste. If the container is badly damaged transfer the resin to a suitable container for reclaim and use.

### **SECTION 7: HANDLING AND STORAGE**

**Storage and handling:** Minimize dust accumulation and generation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. See section 8: Exposure Controls/Personal Protection: for types of protection equipment needed. Avoid eye contact and generating airborne dust. Provide adequate protective equipment and ventilation. At the material handling areas provide local exhaust to mechanical dust collection systems. Clean up any dust accumulations. Remove sources of ignition. Store in a cool (68°F) dry place elevated above floor with no contact against walls to allow air motion around containers to prevent water condensation on the material. Avoid direct sunlight, heat sources, open flames, ignition sources, and incompatible substances.

This resin is a thermoset material meaning it is cured by heat. Summertime heat and sunlight causing hot warehouses will greatly decrease the shelf life of this material.

### **SECTION 8: EXPOSURE CONTROL PERSONAL PROTECTION**

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.

Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Use only appropriately classified electrical equipment and powdered industrial trucks.

Exposure Limit Guidelines To Material Components:

**Free Formaldehyde: CAS# 50 - 00 - 0 < 0.7%**

Carcinogenicity: OSHA, IARC Yes, Listed as Group 1 carcinogen

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OSHA Action Level: 0.5 ppm TWA  
Worker Exposure: 0.75 ppm TWA  
STEL: 2.0 ppm

ICGIH TLV: 0.3 ppm

### **Melamine Formaldehyde Resin Powder CAS# 9003-08-1**

Carcinogenicity (see free formaldehyde) Concern as airborne dust exposure.

OSHA PEL/TWA: 15 (total dust mg/m<sup>3</sup>) / 5 (Respirable dust mg/m<sup>3</sup>)

ACGIH TLV: 10 (total dust mg/m<sup>3</sup>) / 3 (Respirable dust mg/m<sup>3</sup>)

#### Exposure Control and Personal Protection:

At material handling areas and operations provide local exhaust and dust collection systems to control dust levels in the air and limit worker exposure.

Eyes – Use dust proof goggles if dust is generated.

Skin – Skin protection is not required under conditions of normal use. Protective gloves (polychloroprene-nitrile rubber recommended), long sleeve shirts and long leg pants should be worn. Protective barrier clothing, boots and/or head covering as needed to prevent dust exposure. Wear a face shield if face contact is likely. All resin contaminated clothing should be laundered before reuse.

Respiratory Protection - Not required under conditions of normal use and when ventilation is adequate. Use NIOSH / MSHA approved masks and respirators if airborne dust is generated.

Other- access to eye wash station and safety shower.

### **9: PHYSICAL AND CHEMICAL PROPERTIES:**

Color: White                      Odor: Slight formaldehyde slight irritating  
Odor Threshold: Not available                      Physical State: Solid as Powder  
pH (50% solution in water) 6.5  
Freezing Point: Not Applicable  
Melt Point: 105 – 115°C (221 – 239°F)  
Boiling Point: Does not melt to true liquid state thermoset curing material reacting  
Flash Point: < 200°F (Closed Cup)  
Evaporation Rate: Does not sublime; not applicable  
Flammability: Not available  
Upper Flammability Limit:: Not available  
Lower Flammability Limit: Not available  
Minimum Explosion Concentration: 120 g/cu.m.  
Dust Explosion Class: St 1 Weak Explosion (Kst 0 to <=200)  
Minimum ignition Temperature: 600°C (1112°F)  
Minimum Ignition Energy: >= 1000 mJ  
Vapor Pressure: Not available  
Vapor Density: Not Applicable  
Specific Gravity: not available  
Auto ignition: Temperature: not available  
Percent volatile: 1 – 2 % as moisture

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Volatile Organic Compound Content, wt %: 0  
 Solubility in water: Slightly soluble  
 Coefficient of oil/water distribution: not available.

**10: STABILITY AND REACTIVITY**

**Stability:** Stable **Hazardous Polymerization:** Does not occur  
**Incompatibilities:** Strong oxidizing agents.  
**Conditions To Avoid:** Heat, ignition sources, open flames, storage at elevated temperatures for prolonged periods of time. Contact with incompatible substances.  
**Hazardous Decomposition Products:** Carbon Dioxide – CO<sub>2</sub>, Carbon Monoxide CO, Oxides of Nitrogen, formaldehyde

**11: TOXICOLOGICAL INFORMATION**

Toxicological information on melamine formaldehyde resin itself was not found but studies have been done on formaldehyde. The unbound formaldehyde content of material is small but action maybe needed to prevent overexposure to *formaldehyde* during the use of the material by the customer.

**General Information:** Formaldehyde is irritating to the eyes and mucous membranes. Formaldehyde is a known skin sensitizer. Repeated and prolonged skin contact with this product may lead to skin rashes due to its low unreacted formaldehyde content. Formaldehyde can also sensitize the respiratory tracts leading to chest tightness and coughing.

**Eye-** may cause severe eye irritation or injury. Formaldehyde – EYE Rabbit, 50 µg (24hours); sever irritation.

**Skin-** Prolonged single exposure can produces severe skin irritation or injury.  
 DERMAL LD<sub>50</sub>: Rabbit, 270 mg/kg WHO IPCS 1989

**Inhalation** – This product may be toxic by inhalation. Severe over exposure may cause serious burns of the entire respiratory tract. Severe over exposure may cause lung damage, choking, unconsciousness, or death. Formaldehyde: VAPOR  
 (LC<sub>50</sub>) Rat 578 4 hours mg/m<sup>3</sup> (LC<sub>50</sub>) Cat, 400 mg/m<sup>3</sup> (2 hrs)

**Ingestion** – Formaldehyde is orally toxic and may be harmful or fatal if swallowed. Expect the gastro intestinal tract to be irritated by this material if it is swallowed.  
 Formaldehyde: Oral (LD<sub>50</sub>): Rat 600 - 800 mg/kg body weight. Tsuchiya K. *et. al.* , 1975 (LD<sub>50</sub>):

**CHRONIC HAZARD:** as Carcinogen Formaldehyde is listed as a probable carcinogen by IARC and OSHA and a suspected carcinogen by NTP. Evidence is based upon animal testing and data on human is inadequate. Formaldehyde vapors have been found to be carcinogenic to animals and are considered possible carcinogenic to humans by inhalation. While the amount of formaldehyde in this product is small < 1% exposure should be minimized or avoided and recommended personal protection measures should be followed.

**12: ECOLOGICAL INFORMATION**

The evaluation of available toxicity data for fish, aquatic invertebrates and aquatic plants indicates that the potential hazard of melamine formaldehyde resin to aquatic organisms is low.  
 Biodegradability of the material is considered to be poor.

**13: DISPOSAL CONSIDERATIONS**

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The information on RCRA waste classification and disposal methodology provided below applies only to the LRBG Chemicals Inc. product as supplied. If the material has been altered, contaminated, or has exceeded its recommended shelf life the guidance may not be applicable. Hazardous waste classification under federal regulations (40 CFR Part 261) is dependent upon whether a material is RCRA listed hazardous waste or has any of four RCRA hazardous waste characteristics. Refer to 40CFR Part 261.33 to determine if a given material is to be disposed of as a RCRA listed hazardous waste. RCRA Hazardous waste characteristics: There are four characteristics defined in 40CFR 261.21-61.24: Ignitability, Corrosivity, reactivity, and toxicity. To determine ignitability see section 9 of this SDS (flashpoint). For corrosivity, see section 9 and 14 (pH and DOT), for reactivity see section 10 (incompatible materials), for toxicity see section 11. Federal regulations are subject to change. State and local regulations may differ from or be more stringent than the federal regulations and may also apply to alternate disposal as waste. It is the responsibility of the user to check local and state waste regulations as to the waste classification for this material and the proper method to be used for its disposal.

### **14. TRANSPORTATION INFORMATION:**

**DOT Non-Hazardous**

**IATA Not Regulated**

**Class 55**

**NMFC 46030**

**Chemical of concern:** formaldehyde CAS # 50-00-0 Reportable Quantities (RQ): 100 lbs.

Resin content: < 0.7% Pounds Resin to get RQ: 14,000 lbs.

**Harmonized Tariff System #:** 390920 0000

**Corrosivity:** None

Synthetic Resins Plastic Materials Powders

### **15: REGULATORY INFORMATION:**

United States (USA): All components of this material are included on the TSCA inventory in compliance with the Toxic Substance Control Act. No reactions have occurred that make a secondary substance or chemical that is not listed on TSCA.

Canada: Components of this product have been reported to environment Canada in accordance with sections 66 and/ or 81 of the Canadian Environmental Protection Act.

European Union (EU): All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) in compliance Council Directives 67/548/EEC.

Australia: All components of this product have not yet been included in the Australian inventory of Chemical Substances (AICS) or assessed by Worksafe Australia.

China: All components of this product are not included in the China Inventory.

Japan: All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese inventory.

Korea: All components of this product are not included on the Korean (ECL) inventory.

Philippines: All components of this product are not included on the Philippines (PICCS) inventory.

This material contains formaldehyde a substance listed on California Proposition 65 to be a Carcinogen.

#### Other Regulatory Information:

The following components of this product may be subjected to reporting requirements pursuant to section 313 of the CERCLA (40 CFR 372) Section 12b of TSCA or may be subject to release reporting requirements (40 CFR 307, 40 CFR 411, etc) see section 13 for information on waste classification and waste disposal of this

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product.

<u>Component/</u>	<u>CAS #</u>	<u>%</u>	<u>Reportable Quantity</u>	
Formaldehyde material	50-00-0	0 – 0.7	100 lbs.	Equals 14,000 of this

**16. OTHER INFORMATION**

Abbreviations and acronyms:

- ACGIH – American Conference of Governmental Industrial Hygienists
- TWA – Time Weight Average; average total exposure over 8 hours allowed to a hazardous material
- STEL - Short Term Exposure Limit; maximum exposure allowed over 15 minutes to a hazardous Material
- CAS # - chem. Abstracts number used to identify the compound
- CERCLA – Comprehensive Environmental Response Compensation and Liability Act
- GHS – Global Harmonization Standard
- IARC – International Association Research of Cancer
- NIOSH-National Institute for Occupational Safety and Health
- NTP-National Toxicology Program
- OSHA- Occupational Safety and Health Administration
- PEL – Permissible exposure limit
- Ppm – parts per million
- RCRA – Resources Conservation Recovery Act
- RQ – Reportable Quantity
- TSCA – Toxic Substance Control Act
- TLV – Threshold Limit Value
- WHMIS – Workplace Hazardous materials Information System (Canada)
- GHS – Global Harmonization System

Refer to *NFPA 654 Standard for Prevention of Fire and Dust Explosion from the Manufacturing, Processing, and Handling, of Combustible Particulate Solids for Safe Handling.*