

# SMT International, LLC

## MATERIAL SAFETY DATA SHEET (MSDS)

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION **Manufactured for Emulation Technology, Inc.**

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**PRODUCT NAME:** Amtech Tacky Paste Flux, Series #61 Flux, 200, 400, 500, 4000, SynTECH, WSFC-305L  
**SYNONYMS:** Tacky Flux / **Emulation Technology, Inc. Part # CQ291ENL (higher temp activation for lead free)**

**MANUFACTURER:** SMT International, LLC  
**ADDRESS:** PO Box 989 Deep River, CT 06417 USA  
**PHONE:** 860-526-8300  
**FAX:** 860-526-8243  
**EMERGENCY:** Infotrac-(800)535-5035

**CHEMICAL NAME:** N/A  
**CHEMICAL FAMILY:** Mixture  
**CHEMICAL FORMULA:** N/A

**REVISION DATE:** December 17, 2010  
**DOCUMENT NAME:** MSDS-Tacky Flux-008

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### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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Ingredient	CAS Number	Exposure Limits
Modified Rosins	N/A	N/A
Pine Oil Derivatives	8000-41-7	N/A
Proprietary Ingredients	N/A	N/A
Mixed Carboxylic Acids	N/A	N/A

**SECTION 2 NOTES:**  
Percentages of individual components are not listed as this information is considered a trade secret.

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### SECTION 3: HAZARDS IDENTIFICATION

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**ROUTES OF ENTRY:** Inhalation, Ingestion, Skin/Eye Contact

**EYE CONTACT:** May cause moderate irritation. Do not allow material to come in contact with eyes.

**SKIN CONTACT:** May cause moderate skin irritation.

**INHALATION:** Moderately toxic. May cause irritation to the respiratory tract.

**INGESTION:** Harmful if swallowed. May cause irritation to the mouth, throat, and stomach. May cause abdominal discomfort, nausea, vomiting, and/or diarrhea.

**CHRONIC:** Not established.

**CARCINOGENICITY:**

**OSHA:** N/A      **ACGIH:** N/A      **NTP:** N/A      **IARC:** N/A

**SECTION 3 NOTES:**

SMT International, LLC does not recommend, manufacture, market, or endorse any of its products for human consumption.

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### SECTION 4: FIRST AID MEASURES

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**EYES:** Flush with plenty of water, contact a physician. If contact lenses can be removed easily, flush eyes without contact lenses.

**SKIN:** Wash affected area with plenty of warm, soapy water. If irritation persists, seek medical attention.

**INGESTION:** Call a physician or Poison Control Center immediately. Do not induce vomiting.

**INHALATION:** Remove to fresh air. If not breathing, seek immediate medical attention.

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### SECTION 5: FIRE-FIGHTING MEASURES

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**FLAMMABLE LIMITS IN AIR:** Not established  
**FLASH POINT:** Not established  
**AUTOIGNITION TEMPERATURE:** N/A  
**EXTINGUISHING MEDIA:** Dry chemical, foam

**SPECIAL FIRE FIGHTING PROCEDURES:** Do not use water. Use NIOSH-approved self-contained Breathing Apparatus and full protective clothing if involved in a fire.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** This product does not present any unusual fire and explosion hazards.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Not established

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**ACCIDENTAL RELEASE MEASURES:** If material spills or leaks, collect and place into a properly labeled waste container. Remove traces of tacky flux using cloth rags or paper towels moistened with Isopropyl Alcohol. Follow on-site personal protective equipment recommendations.

**SECTION 6 NOTES:**

See Sections 3, 4, and 7 for additional information.

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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING/STORAGE:** Keep containers tightly closed when not in use. Use care to avoid spills. Avoid inhalation of fumes or dust. Avoid contact with eyes, skin, and clothing.

**OTHER PRECAUTIONS:** Empty containers may retain product residues in vapor, liquid, and/or solid form. All labeled hazard precautions should be observed.

**SECTION 7 NOTES:**

For industrial use only.  
Keep out of reach of children.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**VENTILATION:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLVs.

**RESPIRATORY PROTECTION:** Use with adequate ventilation.

**EYE PROTECTION:** Use with appropriate safety glasses.

**SKIN PROTECTION:** Protective gloves and clothing should be worn when handling material. Wash hands thoroughly with soap and water upon leaving the work area.

**WORK HYGIENIC PRACTICES:** Cosmetics/Food/Drink/Tobacco should not be consumed or used in work areas. Always wash hands after handling material and before applying or using cosmetics/food/drink/tobacco.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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<b>APPEARANCE:</b>	Clear, White, or Yellow to Dark Amber gel
<b>ODOR:</b>	Mild odor
<b>pH as SUPPLIED:</b>	N/A
<b>BOILING POINT:</b>	Not established
<b>MELTING POINT:</b>	Not established
<b>FREEZING POINT:</b>	Not established
<b>VAPOR PRESSURE (mmHg):</b>	N/A (°F/°C)
<b>VAPOR DENSITY (AIR = 1):</b>	N/A (°F/°C)
<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b>	N/A
<b>EVAPORATION RATE:</b>	N/A
<b>SOLUBILITY IN WATER:</b>	Partially
<b>PERCENT SOLIDS BY WEIGHT:</b>	N/A
<b>PERCENT VOLATILE:</b>	N/A (°F/°C)
<b>VOLATILE ORGANIC COMPOUNDS (VOC):</b>	N/A (°F/°C)
<b>MOLECULAR WEIGHT:</b>	N/A
<b>VISCOSITY:</b>	N/A (°F/°C)

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**SECTION 10: STABILITY AND REACTIVITY**

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<b>STABILITY:</b>	Stable
<b>CONDITIONS TO AVOID (STABILITY):</b>	Freezing temperatures. High temperatures.
<b>INCOMPATIBILITY (MATERIAL TO AVOID):</b>	Strong oxidizing materials
<b>HAZARDOUS DECOMPOSITION/BY-PRODUCTS:</b>	Harmful organic fumes and toxic oxide fumes may form at elevated temperatures.
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**CARCINOGENICITY:** None known  
**IRRITANCY OF PRODUCT:** Not established  
**SENSITIZATION TO PRODUCT:** Not established  
**OTHER:** Prolonged or repeated exposure to flux fumes may cause workers to develop occupational asthma.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**ENVIRONMENTAL:** Not established

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:** Scrap and waste solder should be stored in a dry, sealed container for later disposal. Disposal must be in accordance with Federal, State/Provincial, and Local Regulations.

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**SECTION 14: TRANSPORT INFORMATION**

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Transport in accordance with applicable regulations and requirements.

<b>US DOT Hazardous Material Classification:</b>	Tacky Flux is not listed as a DOT hazardous material
<b>Water Transportation:</b>	Tacky Flux is not listed as a hazardous material
<b>IATA Hazardous Material Classification:</b>	Tacky Flux is not listed as IATA hazardous material

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**SECTION 15: REGULATORY INFORMATION**

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All ingredients used to manufacture this product are listed on the EPA TSCA Inventory.

<b>U.S. FEDERAL REGULATIONS:</b>	Not regulated
<b>STATE REGULATIONS:</b>	Not regulated
<b>INTERNATIONAL REGULATIONS:</b>	Not regulated

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**SECTION 16: OTHER INFORMATION**

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**HMIS Rating:** Health=1                      Flammability=1                      Physical Hazard=0                      Personal Protection=X

**PREPARATION INFORMATION:**

This update supersedes all previously released documents.

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