MATERIAL SAFETY DATA SHEET

Amtech Solder Products, Inc.
75 Schoolground Road
Branford, CT 06405

Prepared: 8/95
Revised: 4/00

Office Telephone: (203) 481-0362 Fax: (203) 481-5033

SECTION 1: IDENTIFICATION

Product Name: Paste Flux 200, 300, 400, 500, 800 and 4000 series. Includes FreshMix, Jars, Cartridges, Syringes and Core.
CAS Registry Number: Not applicable since product is a mixture.

SECTION 2: COMPONENT HAZARD DATA (1)

Hazardous Components	CAS Number	Exposure Limits
Modified Rosins (2)	NA	Not Established
Terpineol	800-41-7	Not Established
Mixed Carboxylic Acids (2)	NA	Not Established

(1) Per 29 CFR 1910 the mixture has not been tested as a whole. All hazardous components that comprise ≥ 1% of the mixture (0.1% if carcinogenic) are listed.

Percentages of individual components are not listed as this information is considered a trade secret.
(2) The identity of the specific chemical(s) is being withheld as a trade secret per 29 CFR 1910.1200. The hazardous properties of these ingredients are disclosed in this MSDS.

SECTION 3: PHYSICAL DATA

Appearance and Odor: Physical State – Cream
Color – Yellow to Amber
Odor – mild solvent

Initial Boiling Point of Organic Mixture: 214°C (417°F)

Specific Gravity < 1

Vapor Pressure (estimated for mixture) <1mm Hg Vapor Density (air =1): >1

Evaporation Rate (estimated for mixture, n-butyl acetate = 1, 20°C) <1

Solubility in Water: Partially

SECTION 4: FIRE, REACTIVITY, AND EXPLOSION HAZARD DATA

Flash Point (Most flammable component): 88°C (190°F)

Auto-ignition Temperature (most flammable component): Not Available

Flammable Limits in Air (most flammable component): Not Available

Extinguishing Media: Water Fog, Alcohol Foam, Dry Chemical

Special Fire Fighting Procedures: Cool exposed containers with water. Use NIOSH approved self contained breathing apparatus with full face piece operated in positive pressure mode, as evolved fumes may be toxic and cause respiratory irritation.

Unusual Fire and Explosion Hazards: Store below flash point, away from open flame or sparks.

Stability: The material is stable

Incompatibility: Will not react with water. Avoid mixing with strong oxidizing agents, acids, and caustics.

Hazardous Decomposition Products: Combustion produces carbon monoxide, carbon dioxide, formaldehyde, and various hydrocarbons.

Hazardous Polymerization: Will not occur

SECTION 5: HEALTH HAZARDS OF COMPONENTS (3)
OSHA Permissible Exposure Limit: Not established for mixture

Components listed as carcinogenic by NTP, IARC, or OSHA: None

Primary route of entry: Inhalation, Skin absorption, and Ingestion

Route of Exposure	Acute and Chronic symptoms	Medical conditions aggravated	Emergency First Aid
Inhalation	Irritant	Unknown	Remove to fresh air. If difficulty Breathing give oxygen. If breathing has stopped, start artificial respiration.
Skin contact	Irritant	Unknown	Remove contaminated clothing, launder before reuse. Wash thoroughly with soap and water.
Eye contact	Irritant	Unknown	Flush with running water for 15 min lifting upper and lower lids.
Ingestion	Irritation of the GI system	Unknown	Drink large quantities of water.

In all cases keep the individuals warm and calm and get medical attention.

(3) This product is a mixture which has not been tested as a whole to determine its hazards. Synergistic or additive effects of the above chemicals are unknown, as are the effects of exposure to these chemicals in addition to others present in the work place.

SECTION 6: PRESONAL PROTECTION AND CONTROLS
Personal Protection: Avoid prolonged contact with the skin.

Respiratory: Not required if local exhaust is satisfactory. If overexposure occurs, use NIOSH-OSHA approved air supply respirator suitable for organic vapors. Administrative or engineering controls should be implemented to reduce exposure.

Eye: Chemical splash goggles or OSHA approved glasses.

Skin: Solvent resistant gloves.

Engineering Controls: Recommended ventilation, provide sufficient mechanical (general or local exhaust) ventilation to maintain concentration levels below TLV.

Hygienic Practices: Prevent eye and/or skin contact, use with adequate ventilation. Do not smoke or eat in work areas. Wash hands thoroughly prior to eating or smoking. For industrial use only. Keep out of the reach of children.

SECTION 7: STORAGE, SPILL, AND DISPOSAL

Special storage conditions: Keep containers closed and sealed when not in use.

Steps to be taken in case material is released or spilled: Clean spill with disposable paper towels, and wash area with soap and water.

Waste disposal method: Dispose in accordance with local, state, and federal regulations.

SECTION 8: REFERENCES

This MSDS is a compilation of the information supplied in the MSDS's obtained from the manufacturers of the chemicals contained in this product. 29 CFR1910.1200 was consulted for MSDS guidelines

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE AND IS OFFERED AT NO CHARGE. NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. LIABILITY IS EXPRESSLY DISCLAIMED FOR LOSS OR INJURY ARISING OUT OF THE USE OF THIS INFORMATION OR THE USE OF ANY MATERIALS DESIGNATED.