

# MATERIAL SAFETY DATA SHEET

Finished Product



Date-Issued: 11/03/2003  
 MSDS Ref. No: TT-95  
 Revision No: New MSDS

PLATO - "TIP TINNER"

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** PLATO - "TIP TINNER"  
**PRODUCT DESCRIPTION:** Coating used to re-tin soldering tips.  
**PRODUCT CODE:** TT-95, TT-95-S, TT-95-SP

### MANUFACTURER

Techspray, L.P.  
 1001 NW 1st Street  
 P.O. Box 949  
 Amarillo, TX 79107  
**Contact:** Chemtrec  
**Product Stewardship:** 1-800-858-4043

### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEMTREC (U.S.):** (800) 424-9300  
**CANUTEC:** (613) 996-6666  
**Emergency Phone:** 1-800-858-4043

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
Copper	0.1 - 1.5	7440-50-8	231-159-6
Phosphoric acid, diammonium salt	49 - 52	7783-28-0	231-987-8
Tin	35 - 45	7440-31-5	
Alcohols, C12-15, ethoxylated	2 - 10	68131-39-	5

### EEC LABEL SYMBOL AND CLASSIFICATION



R 36/37 - Irritating to eyes and respiratory system

EEC Irritant - "Xi"

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Gray Solid with low odor

**IMMEDIATE CONCERNS:** Fumes produced during normal use may contain ammonia and organic decomposition products which can irritate the eyes, mucous membranes, and the respiratory system (throat, esophagus, lungs, etc.)

#### POTENTIAL HEALTH EFFECTS

**EYES:** Moderately irritating to the eyes.

**SKIN:** May cause skin irritation.

**SKIN ABSORPTION:** None Expected.

**INGESTION:** Not likely to be ingested.

**INHALATION:** Prolonged or excessive inhalation may cause respiratory tract irritation.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Contact may cause eye irritation.

**SKIN:** May cause slight irritation.

**SKIN ABSORPTION:** None Expected.

**INGESTION:** Not a likely route of exposure.

**INHALATION:** Inhalation may cause respiratory tract irritation.

**CHRONIC:** Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

**CARCINOGENICITY:** None known.

**MUTAGENICITY:** None known.

#### REPRODUCTIVE TOXICITY

**REPRODUCTIVE EFFECTS:** None known.

**TERATOGENIC EFFECTS:** None known.

**ROUTES OF ENTRY:** Eyes and Inhalation of fumes are the major routes of entry

**TARGET ORGAN STATEMENT:** Eyes, mucous membranes, and respiratory system.

**CANCER STATEMENT:** NOT listed

**PHYSICAL HAZARDS:** Avoid breathing (dust, mist, fumes).

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### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**SKIN:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**INGESTION:** Ingestion is unlikely because of the physical properties and is not expected to be hazardous. Do not induce vomiting unless instructed to do so by a physician.

**INHALATION:** Remove to fresh air.

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## 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** None : . . . . ASTM D-56 (Tag C.C.)

**FLAMMABLE LIMITS:** None to None

**AUTOIGNITION TEMPERATURE:** Not Applicable

**GENERAL HAZARD:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**EXTINGUISHING MEDIA:** Water, foam, dry chemical, carbon dioxide.

**EXPLOSION HAZARDS:** None known.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

**SENSITIVE TO STATIC DISCHARGE:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** Forced combustion yields carbon and silicone oxides.

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## 6. ACCIDENTAL RELEASE MEASURES

**GENERAL PROCEDURES:** Vacuum or sweep up material and place in a disposal container.

**RELEASE NOTES:** None Expected.

**SPECIAL PROTECTIVE EQUIPMENT:** NA = Not Applicable

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## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Wash thoroughly after handling. Use only in a well ventilated area. Store in a cool dry place.

**HANDLING:** Use with adequate ventilation.

**STORAGE:** Store in a cool place in original container and protect from sunlight.

**STORAGE TEMPERATURE:** Not Applicable

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE GUIDELINES:**

**OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)**

**EXPOSURE LIMITS**

<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>Supplier OEL</u>	
<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>

Copper

**ENGINEERING CONTROLS:** Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

**SKIN:** None Expected.

**RESPIRATORY:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**WORK HYGIENIC PRACTICES:** Avoid contact with eyes. Avoid fume inhalation. Limit skin contact.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- PHYSICAL STATE:** Solid
- ODOR:** Characteristic odor.
- APPEARANCE:** Gray Solid with low odor
- pH:** Not Applicable
- PERCENT VOLATILE:** None
- VAPOR PRESSURE:** Not Applicable
- VAPOR DENSITY:** Not Applicable
- BOILING POINT:** Not Applicable
- FREEZING POINT:** Not Applicable
- MELTING POINT:** 160°C (320°F)
- EVAPORATION RATE:** Not Applicable
- DENSITY:** Not Applicable
- SPECIFIC GRAVITY:** >1.0 (water=1)
- VISCOSITY:** Not Applicable
- MOLECULAR WEIGHT:** Not Applicable
- (VOC):** 0 g/L

**10. STABILITY AND REACTIVITY**

**STABLE:** YES

**HAZARDOUS POLYMERIZATION:** NO

**CONDITIONS TO AVOID:** Stable. However, may decompose if heated.

**STABILITY:** Stable.

**POLYMERIZATION:** Will not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:** When heated to solder melting temperatures, thermal degradation may produce ammonia, aliphatic aldehydes and acids, and other potentially harmful organic fumes.

**INCOMPATIBLE MATERIALS:** Oxidizing materials.

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## 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** May be mildly irritating to eyes.

**SKIN EFFECTS:** Not Established

**SENSITIZATION:** Not Established

**CARCINOGENICITY:**

**CARCINOGENICITY COMMENTS:** Not listed as a carcinogen.

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## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Biodegradability - Minimal

**ECOTOXICOLOGICAL INFORMATION:** Not Established

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## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Federal, State, and Local laws governing disposal of materials can differ. Ensure compliance with proper authorities before disposal.

**PRODUCT DISPOSAL:** Solder can be reclaimed.

**GENERAL COMMENTS:** Dispose of in a manner consistent with federal, state, and local regulations.

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## 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Nonhazardous

**PRIMARY HAZARD CLASS/DIVISION:** Not Regulated

**UN/NA NUMBER:** N/A

**PACKING GROUP:** N/A

**REPORTABLE QUANTITY (RQ) UNDER CERCLA:** N/A

**CANADA TRANSPORT OF DANGEROUS GOODS**

**PROPER SHIPPING NAME:** Nonhazardous  
**PRIMARY HAZARD CLASS/DIVISION:** Not Regulated  
**UN/NA NUMBER:** N/A  
**PACKING GROUP:** N/A

**AIR (ICAO/IATA)**

**PROPER SHIPPING NAME:** Nonhazardous  
**PRIMARY HAZARD CLASS/DIVISION:** Not Regulated  
**UN/NA NUMBER:** N/A  
**PACKING GROUP:** N/A

**VESSEL (IMO/IMDG)**

**PROPER SHIPPING NAME:** Nonhazardous  
**PRIMARY HAZARD CLASS/DIVISION:** Not Regulated  
**UN/NA NUMBER:** N/A  
**PACKING GROUP:** N/A

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**15. REGULATORY INFORMATION**

**UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:** NHH, NPH

**FIRE:** NO **PRESSURE GENERATING:** NO **REACTIVITY:** NO **ACUTE:** YES  
**CHRONIC:** YES

**313 REPORTABLE INGREDIENTS:** Not Applicable

**TITLE III NOTES:** Not listed as an Extremely Hazardous Substance.

**302/304 EMERGENCY PLANNING**

**EMERGENCY PLAN:** NOT listed

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA REGULATORY:** Listed in table 302.4 of 40CFR Part 302 as a hazardous substance however, this material is greater than 100 micrometers therefore it does not have a reportable quantity.

**CERCLA RQ:** None

**EPA**

**EPA RQ INGREDIENT:** None

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA REGULATORY:** All chemicals in this product are listed on the TSCA Inventory.

**TSCA STATUS:** All chemicals in this product are listed in the TSCA inventory.

**RCRA STATUS:** NA = Not Applicable

**OSHA HAZARD COMM. RULE:** Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

CLEAN WATER ACT: Not Available

CARCINOGEN: NOT listed

CLEAN AIR ACT

40 CFR PART 68--RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION: NA = Not Applicable

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR 1910.119--PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: None of the chemicals in this product are considered highly hazardous by OSHA.

CANADA

WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM): Not a controlled product.

WHMIS CLASS: Class A, Class D2B.

DOMESTIC SUBSTANCE LIST (INVENTORY): All components of this product are listed on the Canadian DSL.

EUROPEAN COMMUNITY

EEC LABEL SYMBOL AND CLASSIFICATION



R 36/37 - Irritating to eyes and respiratory system

EEC Irritant - "Xi"

CALIFORNIA PROPOSITION 65: This product does not contain any chemicals known to the State of California to cause cancer.

16. OTHER INFORMATION

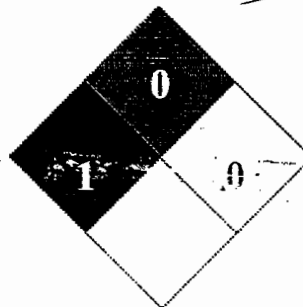
APPROVED BY: Pierce A. Pillon TITLE: Chemist

PREPARED BY: Heath Layton

HMIS RATING

HEALTH:	<input type="checkbox"/>	1
FLAMMABILITY:	<input type="checkbox"/>	0
PHYSICAL HAZARD:	<input type="checkbox"/>	0
PERSONAL PROTECTION:		

NFPA CODES



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