

Material Safety Data Sheet

PLATO PRODUCTS, INC.

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MSDS Number: Tip Tinner

Date Prepared: 31-Aug-01

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Identifier As Used On Label: **TIP TINNER**

Product Use: Tinning or solder coating soldering iron tips.

Manufacturer's Name and Address

Supplier's Name and Address (if different from manufacturer)

**PLATO PRODUCTS, INC
18731 RAILROAD STREET
INDUSTRY, CA 91748**

Telephone Number For Information: (800) 423-4510

CHEMTREC 24-Hour Emergency Telephone Number: (800) 424-9300

NA = Not Applicable NE = Not Established UN = Unknown

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS 1 % or greater CARCINOGENS 0.1 % or greater	C.A.S. Number	Weight Percent	OSHA PEL mg/m ³	ACGIH TLV STEL mg/m ³	LD 50 ingested g / Kg	LC 50 inhaled g / m ³
Tin	7440-31-5	40	2	2	NE	NE
Copper	7440-50-8	< 1	NE	0.2	NE	NE
Ammonium Phosphate	7783-28-0	51	NE	NE	NE	NE
NON-HAZARDOUS INGREDIENTS						
Surfactant	68131-39-5	5	OSHA: Occupational Safety and Health Administration PEL: Permissible Exposure Limit ACGIH: American Conference of Government Industrial Hygienists TLV: Threshold Limit Values STEL: Short-Term Exposure Limit TWA: Time Weighted Average C.A.S. Chemical Abstract Service			

NOTES: * See Section 15 for U.S.A. Regulatory Information.

SECTION 3 - HAZARDS IDENTIFICATION

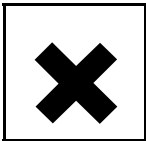
EMERGENCY OVERVIEW

Hot solder can burn eyes and skin. Causes skin and eye irritation.

ECC (Europe) DANGEROUS SUBSTANCES
HAZARD DESIGNATION:

R-PHRASES (Risks to Humans or the Environment):

R 36/37 - Irritating to eyes and respiratory system.



Xi Irritant

PRIMARY EXPOSURE:

Fumes during use may contain ammonia and organic decomposition products.

PRIMARY ROUTES OF ENTRY: Skin Eyes Inhalation Ingestion

TARGET ORGANS:

Eyes, mucous membranes and respiratory system.

POTENTIAL HEALTH EFFECTS OF ACUTE (severe short-term) EXPOSURE:

INHALATION: Fumes during use may irritate mucous membranes and respiratory system.

EYE CONTACT: Irritation.

SKIN CONTACT: Fumes may be mildly irritating to skin.

INGESTION: Not likely to occur.

SKIN ABSORPTION: None.

POTENTIAL HEALTH EFFECTS OF CHRONIC (prolonged) EXPOSURE:

Fumes may cause irritation of eyes and mucous membranes, headache, and/or respiratory system irritation or damage. Prolonged or repeated contact with skin can cause a rash.

Medical Conditions Generally Aggravated by Exposure:

Chemical hypersensitivity, asthma and other respiratory conditions, existing eye and skin disorders.

CARCINOGENICITY/ NTP OSHA IARC Not Listed

TERATOGENICITY / MUTAGENICITY: See Sections 11 and 15 for additional information.

SECTION 4 - FIRST AID MEASURES

Seek medical assistance for further treatment, observation and support if needed.

EYE CONTACT: Flush eyes with plenty of water and get medical attention.

SKIN CONTACT: Wash thoroughly with soap and water.

INHALATION: Remove person from exposure to fumes.

INGESTION: Not likely to occur.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability: No Yes Conditions to avoid: None

Flash Point (T.O.C): NA °F NA °C Auto-Ignition Temperature: NA °F NA °C

Flammability Limits percent by volume in air: LEL: NA UEL: NA

Extinguishing Means: Water Carbon Dioxide Alcohol Foam Dry Chemical

Hazardous Combustion Products: Ammonia.

Explosion Sensitivity: Impact - None Identified Static Discharge Sensitivity: Yes No

Special Firefighting Procedures: NA

Unusual Fire and Explosion Hazards: None known.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Steps to be Taken if Material is Spilled or Released:

NA

SECTION 7 - HANDLING AND STORAGE

Storage Precautions: Keep containers sealed when not in use.

Handling Precautions: Keep containers sealed when not in use.

Personal Precautions: Avoid breathing fumes generated during use. Avoid contact with eyes and skin.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

VENTILATION TO BE USED: Provide adequate exhaust ventilation (general and / or local) if necessary to meet exposure requirements. Local exhaust ventilation is preferred to minimize dispersion of smoke and fumes into the work area.

Respiratory Protection: When ventilation is not sufficient to remove fumes from the breathing zone, a safety approved respirator or self-contained breathing apparatus should be worn.

Protective Gloves: Usually not required. **Eye Protection:** Safety glasses or goggles should be used.

Other Protective Clothing and Equipment: None.

Hygienic Work Practices: Avoid contact with eyes or skin.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State at 20 °C: Solid	Specific Gravity (water = 1 at 25 °C): > 1
Boiling Point (760 mm Hg): NA °F NA °C	Melting Point: 320 °F 160 °C
Vapor Pressure (mm Hg at 20 °C): NA	Evaporation Rate (butyl acetate = 1): NA
Vapor Density (air = 1): NA	Percent Volatile (by volume): 0 %
Solubility in Water (% by weight): 50	Volatile Organic Compound (VOC): 0 g / Liter
pH: 6	Odor Threshold: NE
Freezing Point (760 mm Hg): NE °F NE °C	Coefficient of Water / Oil Distribution: NE

Appearance and Odor: Gray solid, low odor.

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable Unstable **Conditions to avoid:** NE

Incompatibility (materials to avoid): Strong oxidizing materials.

Hazardous Decomposition Products:

When heated to solder melting temperature, thermal degradation products may include ammonia, aliphatic aldehydes and acids.

HAZARDOUS POLYMERIZATION:

May Occur **Conditions to avoid:** NE
 Will Not Occur

SECTION 11 - TOXICOLOGICAL INFORMATION

EXPOSURE LIMITS: Not determined for the product. See Section 2 for ingredients

No data available.

SECTION 12 - ECOLOGICAL INFORMATION

No data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Methods:

Solder can be reclaimed.

CAUTION: Empty containers may contain product residue. Observe all label precautions.

SECTION 14 - TRANSPORT INFORMATION

DOT (U.S.A.): Not Regulated

TDG (Canada): Not Regulated

SECTION 15 - REGULATORY INFORMATION

U.S.A.: All Chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory.

California Proposition 65: None

Canada: WHMIS (Workplace Hazardous Materials Information System) CLASSIFICATION:
 This product has been classified in accordance with the hazard criteria of the Canadian Controlled Product Regulations (CPR) and the MSDS contains all the information required by the CPR.

D2B

Europe: European Council Directive 67/548/EEC

- DANGEROUS SUBSTANCES HAZARD CLASSIFICATION: Xi - Irritant
- R-PHRASES (Risks to Humans or the Environment)
 - R 36/37 - Irritating to eyes and respiratory system.
- S-PHRASES (Safety Precautions for Storing, Handling and Using the Product)
 - S 2 - Keep out of reach of children.
 - S 24/25 - Avoid contact with skin and eyes.
 - S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

SECTION 16 - OTHER INFORMATION

NFPA Rating:	Health: 1	Flammability: 0	Reactivity: 0	Special:
HMIS Rating:	Health: 1	Flammability: 0	Reactivity: 0	Personal Protection: X

PREPARATION INFORMATION

Revision Summary: Change of format and new data in most sections.

Prepared By: PLATO PRODUCTS, INC	Date Prepared: 01-Aug-01
Telephone Number: (800) 423-4510	Supersedes: 08-Nov-99

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