



No-Clean Flux Dispensing Pen

Trace Technologies™ **2507**

Introduction

The No-Clean Flux Dispensing Pen is designed to dispense no-clean flux in the high precision applications of prototype and rework/repair of printed circuit boards. The resin and halide-free no-clean flux will leave no residues. It provides optimum wetting over a wide range of surfaces and will not damage commonly used plastics.

Features / Benefits

Excellent Wetting Abilities
Pen Tip Allows Accurate Application
Excellent for Surfaces with Poor Solderability

Chemical Components

Isopropanol	(67-63-0)	90-100%
Adipic Acid	(124-04-9)	2-3%

Environmental Policy

Techspray® is committed to developing products to ensure a safer and cleaner environment. We will continue to meet and sustain the regulations of all federal, state and local government agencies.

Packaging and Availability

No-Clean Flux Dispensing Pen is available in the following sizes:

2507-N 1 11.5ml Pen

MATERIAL SAFETY DATA SHEET

Finished Product



MSDS Ref. No: 2507-N

Trace Technologies No-Clean Flux Dispensing Pen

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Trace Technologies No-Clean Flux Dispensing Pen

PRODUCT DESCRIPTION: Flux Dispensing Pen

PRODUCT CODE: 2507/CAN/EUR-N

MANUFACTURER

Techspray, L.P.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	<u>Wt.%</u>	CAS#	EINECS#
2-Propanol	90 - 100	67-63-0	200-661-
Non-ionic flux mixture (Propietary non-hazardous blend)	1 - 10		NIF

EEC LABEL SYMBOL AND CLASSIFICATION



R11 - Highly flammable.

EEC Highly flammable - "F"



R36/38 - Irritating to eyes and skin.

EEC Irritant - "Xi"

Trace Technologies No-Clean Flux Dispensing Pen

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Aspiration hazard. If swallowed, vomiting may occur spontaneously, but do not induce. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Call a physician immediately.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: (53°F)TAG CC

FLAMMABLE LIMITS: 2.0 to 12.0

GENERAL HAZARD: Vapors can travel to a source of ignition and flash back.

EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS: Smoke, fumes and oxides of carbon.

FIRE FIGHTING PROCEDURES: Evacuate area and fight fire from a safe distance.

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

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Contain spill with dike to prevent entry into sewers.

LARGE SPILL: Clean up spills immediately, observing precautions in Protective Equipment section.

GENERAL PROCEDURES: Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including vapors, have been removed thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth, gravel, etc. as necessary and place in closed containers for disposal.

SPECIAL PROTECTIVE EQUIPMENT: Only personnel equipped with proper respiratory and skin/eye protection should be permitted in area. See Section 8 for details.

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 sufficient ventilation to keep employee exposure below recommended limits. Provide adequate ventilation for storage, handling and use, especially for enclosed or low spaces. Avoid contact of liquid

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Alcohol odor

APPEARANCE: Clear, Colorless liquid

PERCENT VOLATILE: 100 VAPOR DENSITY: 2.1 (Air=1) BOILING POINT: to 80°C (176°F) SOLUBILITY IN WATER: WT %

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Heat, flames, ignition sources, and incompatables.

STABILITY: Stable.

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide and carbon Monoxide may form when heated to decomposition.

INCOMPATIBLE MATERIALS: Strong acids and alkalis, reactive metals and strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: 12800 mg/kg (rabbit)

ORAL LD₅₀: 5045 mg/kg (rat)

INHALATION LC₅₀: Slight to very low toxicity.

Fumes/liquid -- Irritant

EYE EFFECTS: Mixture is a moderate eye irritant.

CARCINOGENICITY:

IARC: NOT listed NTP: NOT listed

OSHA: NOT listed

MUTAGENICITY: Collective data indicate non-mutagenic.

REPRODUCTIVE EFFECTS: NOT listed

NEUROTOXICITY: Not Established

TERATOGENIC EFFECTS: Not Available

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: There is limited information available on the environmental fate and effects of this material. The primary environmental concern for release is the impact on aquatic and terrestrial species. Due care should be taken to avoid the accidental release of this material into the environment.

ECOTOXICOLOGICAL INFORMATION: Isopropyl alcohol has a high biochemical oxygen demand and a potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism, a low potential to affect the germination of some plants, a high potential to biodegrade (low persistence) with unacclimated microorganisms from activated sludge.

13. DISPOSAL CONSIDERATIONS

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

FOR LARGE SPILLS: Contaminated sawdust, vermiculite, or porous surfaces must be disposed of in a permitted hazardous waste management facility. Recovered liquids may be reprocessed or incinerated or must be treated in a permitted hazardous waste management facility.

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

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Nonhazardous

UN/NA NUMBER: N/A PACKING GROUP: N/A

OTHER SHIPPING INFORMATION: "THIS PACKAGE CONFORMS TO 49CFR 173.4." must be on

package.

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Nonhazardous PRIMARY HAZARD CLASS/DIVISION: 9

UN/NA NUMBER: ID8000 PACKING GROUP: N/A

IATA NOTE: Domestic shipments only. When shipping International contact TechSpray shipping department.

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: ISOPROPANOL **PRIMARY HAZARD CLASS/DIVISION:** 3

UN/NA NUMBER: UN1219 PACKING GROUP: II IMDG NOTE: Page 3244

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: IMMEDIATE / DELAYED

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

CHRONIC: NO

313 REPORTABLE INGREDIENTS: 2-propanol (CAS #67-63-0)

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

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All components of this product are either listed or exempt from listing in the TSCA

inventory.

RCRA STATUS: D001

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

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): This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS CLASS: Class B2 - Flammable Liquids. Class D2B - Toxic Materials.

EUROPEAN COMMUNITY

EEC LABEL SYMBOL AND CLASSIFICATION



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R36/38 - Irritating to eyes and skin.

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R52 - Harmful to aquatic organisms.