

MATERIAL SAFETY DATA SHEET

Date-Issued : 08/14/2003
MSDS Ref. No : 830VHF
Date-Revised : 01/28/2010
Revision No : 1

#830VHF Liquid Flux

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: #830VHF Liquid Flux
PRODUCT DESCRIPTION: Water Soluble VOC Free Flux

MANUFACTURER

Qualitek International, Inc.
 315 Fairbank St.
 Addison, IL 60101
Product Stewardship: (630) 628-8083

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Content</u>	<u>CAS</u>	<u>EINECS</u>
Glycerine Mist	< 2	56-81-5	200-289-5
Ethanol, 2-amino-	1	141-43-5	205-483-3

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.

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

INGESTION: Minimal toxicity. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.

INHALATION: May be irritating to the mucous membranes and to the respiratory tract.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Stinging, tearing, redness and swelling.

SKIN: Redness, burning, drying, cracking and rash.

INGESTION: Nausea, vomiting, impaired coordination, diarrhea, dizziness, drowsiness, weakness, fatigue, headache and loss of consciousness.

CARCINOGENICITY: This product contains no components at concentrations of 0.1 percent or greater that are listed by IARC, NTP, OSHA or ACGIH as carcinogens.

4. FIRST AID MEASURES

EYES: Remove any contact lenses. Immediately flush eyes with large quantities of water for at least 15 minutes. Get immediate medical attention.

SKIN: Immediately flush with large amounts of water. Use soap if available. Remove contaminated clothing, including shoes, after flushing has begun. Get medical attention as soon as possible.

INGESTION: If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

INHALATION: Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

COMMENTS: If victims of chemical over-exposure are taken for medical attention, give a copy of the label or this MSDS to the physician/health care professional.

5. FIRE FIGHTING MEASURES**FLASHPOINT AND METHOD:** None**FLAMMABLE LIMITS:** N/A**AUTOIGNITION TEMPERATURE:** Not Determined**EXTINGUISHING MEDIA:** Use media for surrounding fire conditions.**HAZARDOUS COMBUSTION PRODUCTS:** May include carbon monoxide and carbon dioxide.**FIRE FIGHTING PROCEDURES:** Cool containers with water to prevent rupturing.**FIRE FIGHTING EQUIPMENT:** Self contained breathing apparatus and full protective turn-out gear.**6. ACCIDENTAL RELEASE MEASURES****SMALL SPILL:** Absorb spilled material with sand or other noncombustible absorbent material and place into containers for later reclamation or disposal.**LARGE SPILL:** Contain spilled liquid with sand, absorbent material, or concrete dikes for recovery or disposal. Collect spilled material for disposal in accordance with all applicable Federal, State and Local regulations.**ENVIRONMENTAL PRECAUTIONS****WATER SPILL:** Contain spill. Prevent contact with eyes, skin and clothing. Prevent flow to larger or flowing bodies of water. Isolate and take up material for recovery or disposal.**LAND SPILL:** In the event of a land spill, prevent liquid from entering sewers, watercourses, or low areas.**7. HANDLING AND STORAGE****HANDLING:** Keep container closed. Handle and open containers with care. DO NOT handle near an open flame, heat, or other sources of ignition. DO NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. DO NOT reuse empty containers without commercial cleaning or reconditioning.**STORAGE:** Store in a cool, well ventilated place away from incompatible materials. Do not store near an open flame, heat, or other source of ignition. Protect materials from direct sunlight.**ELECTROSTATIC ACCUMULATION HAZARD:** Use proper grounding and bonding procedures when transferring material.**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****EXPOSURE GUIDELINES:****OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)**

<u>Chemical Name</u>	<u>EXPOSURE LIMITS</u>						
	<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>Supplier OEL</u>		
	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	
Ethanol, 2-amino-	TWA	3 ppm ^[1]	6 mg/m ³	3 ppm	7.5 mg/m ³	NL ppm	NL mg/m ³
	STEL	NL ppm	NL mg/m ³	6 ppm	15 mg/m ³	NL ppm	NL mg/m ³

OSHA TABLE COMMENTS:

1. NL = Not Listed

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the OSHA/ACGIH exposure guidelines.**PERSONAL PROTECTIVE EQUIPMENT****EYES AND FACE:** Wear splash goggles or glasses with face shield.

SKIN: Neoprene rubber gloves, impermeable gloves, cuffed butyl-rubber gloves, or nitrile rubber gloves.

RESPIRATORY: Atmospheric levels should be maintained below the exposure guideline. For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures and/or without sufficient ventilation, use a NIOSH/MSHA approved air-purifying respirator.

PROTECTIVE CLOTHING: Protective clothing and safety shoes as necessary to minimize contact.

WORK HYGIENIC PRACTICES: Good personal hygiene practices should be used. Wash after any contact, before eating, and at the end of the work period.

OTHER USE PRECAUTIONS: Eye wash station and quick drench safety shower in immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Slight acidic odor.

APPEARANCE: Liquid

COLOR: Light amber.

VAPOR PRESSURE: 17 mmHg at 20°C (68°F)

VAPOR DENSITY: > 1 (Air=1)

BOILING POINT: 100°C (212°F)

MELTING POINT: Not Applicable

SOLUBILITY IN WATER: Complete

EVAPORATION RATE: 2.3 (n-Butyl Acetate=1)

SPECIFIC GRAVITY: 1.04 to 1.060

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Ignition sources such as sparks and open flames.

STABILITY: Stable under ordinary use and storage conditions.

POLYMERIZATION: Will not occur under normal use and storage conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes of carbon monoxide and carbon dioxide.

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

GENERAL COMMENTS: No toxicological information available at this time.

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS: No information on ecological toxicity or biodegradability is available at this time.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of this material, contaminated absorbent material and other contaminated materials in an approved waste disposal facility, according to all applicable Federal, State, and Local regulations. Recovery and reuse, rather than disposal, should be the ultimate goal in handling efforts.

EMPTY CONTAINER: Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or otherwise properly disposed of.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not regulated by DOT

15. REGULATORY INFORMATION

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

CERCLA REGULATORY: Not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All ingredients are listed or are exempt from listing (as polymers) on the Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): WHMIS Hazardous Ingredients: 2-Propanol

WHMIS CLASS: Class B Division 2, Class D Division 2B

CALIFORNIA PROPOSITION 65: When used for soldering and similar applications chemicals may be produced which are known to some states to cause birth defects or other reproductive harm.

16. OTHER INFORMATION

APPROVED BY: Tippy Wicker **TITLE:** Director of Product Development

PREPARED BY: B. Backes

INFORMATION CONTACT: (630) 628-8083

REVISION SUMMARY Revision #: 1 This MSDS replaces the August 14, 2003 MSDS. Any changes in information are as follows: In Section 1 MSDS Number

HMIS RATING

HEALTH:		1
FLAMMABILITY:		0
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		C

MANUFACTURER DISCLAIMER: The information contained herein is based upon data considered to be accurate and is offered solely for information, customer consideration and investigation. The manufacturer extends no warranties, makes no representations and assumes no responsibility as to the accuracy, completeness or suitability of this data for any purchaser's use. The content of this Material Safety Data Sheet relates only to this product as sold and does not relate to use with any other material or in any process. All chemical products should be used only by, or under, the direction of technically qualified personnel, who are aware of the hazards involved and of the necessity for reasonable care in handling. Hazard communication regulations, United States Occupational Health and Safety (OSHA) and Canadian Workplace Hazardous Materials Information System (WHMIS) require that employees must be trained in the use of Material Safety Data Sheets as a source of hazards information and response.