

MATERIAL SAFETY DATA SHEET



Date-Issued:08/14/2003
MSDS Ref. No:03350NVOC
Date-Revised:05/28/2004
Revision No:1

#350NVOC Liquid Flux

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: #350NVOC Liquid Flux
PRODUCT DESCRIPTION: No Clean VOC Free Flux

MANUFACTURER

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

24 HR. EMERGENCY TELEPHONE NUMBERS

Emergency Phone: (800) 535-5053

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
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COMMENTS: This product contains no ingredients that are considered hazardous according to 29 CFR 1910.1200.

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: May cause irritation of the mouth, throat, and gastrointestinal tract.

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: Possible nausea and/or vomiting

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 medical attention if irritation or vision problems develop.

SKIN: Immediately wash skin with soap and copious amounts of water. Remove any contaminated clothing. Get medical attention if irritation develops. Wash contaminated clothing before reuse.

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

INHALATION: Move person to fresh air. If breathing is stopped or is labored, give assisted respiration (e.g. mouth-to-mouth). Supplemental oxygen may be indicated. Seek medical advice if necessary.

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: Not Flammable

FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: Use media for surrounding fire conditions.

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: Use appropriate personal protective equipment, and handle in a well-ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.

STORAGE: Store in a cool, well ventilated place away from incompatible materials. Keep containers tightly closed when not in use. Protect containers from damage.

ELECTROSTATIC ACCUMULATION HAZARD: Use proper grounding and bonding procedures when transferring material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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: Dark amber.

VAPOR PRESSURE: 218 mmHg at 78°C (173°F)

VAPOR DENSITY: 0.6 (Air=1)

BOILING POINT: 105°C (221°F)

MELTING POINT: Not Applicable

SOLUBILITY IN WATER: Complete
EVAPORATION RATE: <1.0 (n-Butyl Acetate=1)
SPECIFIC GRAVITY: 1.000 to 1.020

10. STABILITY AND REACTIVITY

STABILITY: Stable under ordinary use and storage conditions.
POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: None known.
INCOMPATIBLE MATERIALS: Strong bases and strong oxidizing materials.

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.
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

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.

PREPARED BY: B. Backes

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

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 3

Potential Health Effects - Ingestion Signs & Symptoms - Ingestion

In Section 4

Firstaid - Eyes Firstaid - Skin Firstaid - Inhalation

In Section 7

Handling Storage

In Section 10

Polymerization

In Section 15

SARA 311/312 Hazard Categories WHMIS WHMIS Class