

SAFETY DATA SHEET



Date Issued : 03/16/2020

SDS No : 920

Date Revised : 05/27/2020

Revision No : 1

Qualitek® 920 Water Soluble Flux

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Qualitek® 920 Water Soluble Flux

PRODUCT DESCRIPTION: Water Soluble VOC-Free Flux

MANUFACTURER

Qualitek International, Inc.

315 Fairbank St.

Addison, IL 60101

Emergency Phone: (800) 535-5053

Customer Service: (630) 628-8083

24 HR. EMERGENCY TELEPHONE NUMBERS

1-800-535-5053 Infotrac

1-352-323-3500 Outside the U.S.

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Eye Corrosion

GHS LABEL



Corrosion

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H314: Causes severe skin burns and eye damage.

PRECAUTIONARY STATEMENT(S)

Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P264: Wash hands thoroughly after handling.

Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

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Storage:

P405: Store locked up.

Disposal:

P501: Dispose of contents/container in accordance to local/regional/national/international regulations.

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.

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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | Wt. % | CAS |
|------------------|-------|------------|
| Hydrobromic Acid | < 15 | 10035-10-6 |
| Diethanolamine | < 5 | 111-42-2 |
| Urea | < 5 | 57-13-6 |

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.

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.

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

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5. FIRE FIGHTING MEASURES

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

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EXPOSURE GUIDELINES

| OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200) | | | | |
|---|--------------|------|-----------------------|-------------------------------------|
| EXPOSURE LIMITS | | | | |
| Chemical Name | Type | | ppm | mg/m ³ |
| Hydrobromic Acid | OSHA PEL | TWA | 3 ppm ^[1] | NL mg/m ³ ^[1] |
| | | STEL | NL ppm | NL mg/m ³ |
| | ACGIH TLV | TWA | NL ppm | NL mg/m ³ |
| | | STEL | NL ppm | NL mg/m ³ |
| | Supplier OEL | TWA | NL ppm | NL mg/m ³ |
| | | STEL | NL ppm | NL mg/m ³ |
| Urea | OSHA PEL | TWA | NL ppm ^[1] | 5 mg/m ³ ^[1] |
| | | STEL | NL ppm | 10 mg/m ³ |
| | ACGIH TLV | TWA | NL ppm | NL mg/m ³ |
| | | STEL | NL ppm | NL mg/m ³ |
| | Supplier OEL | TWA | NL ppm | NL mg/m ³ |
| | | STEL | NL ppm | NL mg/m ³ |

Footnotes:
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 appropriate protective eyeglasses or chemical safety goggles as described.

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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Chemical Name | Boiling Point (°C) |
|---------------|--------------------|
| Urea | 135 |

ODOR: Slight acidic odor.

APPEARANCE: Liquid

COLOR: Colorless

pH: 1.5 to 2.5

FLASH POINT AND METHOD: None

FLAMMABLE LIMITS: N/A

AUTOIGNITION TEMPERATURE: Not Determined

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

BOILING POINT: 100°C (212°F)

MELTING POINT: Not Applicable

SOLUBILITY IN WATER: Complete

EVAPORATION RATE: < 1.0 (n-Butyl Acetate=1)

SPECIFIC GRAVITY: 1.05 to 1.070 g/cm³ at 25°C

10. STABILITY AND REACTIVITY

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

STABILITY: Stable under ordinary use and storage conditions.

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

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

INCOMPATIBLE MATERIALS: Caustics, amines, alkanamines, aldehydes, strong oxidizing agents, and chlorinated compounds.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

| Chemical Name | ORAL LD ₅₀ (rat) | DERMAL LD ₅₀ (rabbit) | INHALATION LC ₅₀ (rat) |
|---------------|-----------------------------|----------------------------------|-----------------------------------|
| Urea | 14300 to 15000 mg/kg (rat) | No data available | No data available |

CARCINOGENICITY

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| Chemical Name | NTP Status | IARC Status | OSHA Status |
|---------------|------------|-------------|-------------|
| Urea | NL | NL | NL |

GENERAL COMMENTS: No toxicological information available at this time.

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS: No information on ecological toxicity 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: Hydrobromic Acid

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: 1788

PACKING GROUP: III

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HEALTH HAZARDS: Acute health, chronic health and fire hazard.

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)

| Chemical Name | CAS |
|---------------|---------|
| Urea | 57-13-6 |

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

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CALIFORNIA PROPOSITION 65: **▲ WARNING:** This product can expose you to chemicals including [see table below], which is [are] known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

| Chemical Name | Wt. % | Listed |
|----------------|-------|----------|
| Diethanolamine | < 5 | • Cancer |

16. OTHER INFORMATION

APPROVED BY: P. Han **TITLE:** Technical Director

PREPARED BY: J. Saleda-Layton **Date Revised:** 05/27/2020

INFORMATION CONTACT: (630) 628-8083

REVISION SUMMARY: This SDS replaces the 03/16/2020 SDS. Revised: **Section 5: EXTINGUISHING MEDIA.**

HMIS RATING

| | | |
|----------------------------|--------------------------|----------|
| HEALTH | <input type="checkbox"/> | 2 |
| FLAMMABILITY | <input type="checkbox"/> | 0 |
| PHYSICAL HAZARD | <input type="checkbox"/> | 0 |
| PERSONAL PROTECTION | <input type="checkbox"/> | C |

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