

SAFETY DATA SHEET



Date issued : 01/17/2007

SDS number : 4000TS

Date revised : 08/24/2022

Revision number : 8

Qualitek® 4000 Test Solution

1. Identification

Product identifier: Qualitek® 4000 Test Solution

Product description: Qualitek 4000 Test Solution

Manufacturer / Supplier

Qualitek International, Inc.

315 Fairbank St.

Addison, IL 60101

Emergency Phone: (800) 535-5053

Customer Service: (630) 628-8083

Emergency telephone number (24 hour)

1-800-535-5053 Infotrac

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

2. Hazard identification

Classification of the substance or mixture

Health hazards:

Eye Irritation, Category 2A

Physical hazards:

Flammable Liquids, Category 2

Label elements



Exclamation
mark



Flame

Signal word: DANGER

Hazard statement(s)

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement(s)

Prevention:

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

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.

P302+P352: IF ON SKIN: Wash with plenty of water/...

P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position

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comfortable for breathing.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Disposal:

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

Potential health effects

Eye: Irritating, and may injure eye tissue if not removed promptly.

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: High vapor concentrations are irritating to the eyes, nose throat and lungs. May cause headaches and dizziness and may have other central nervous system effects. Negligible hazard at ambient temperature (-18 to 38°C).

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Isopropanol	< 75	67-63-0

4. First-aid measures

Eye: 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.

Most important symptoms and effects, both acute and delayed

Eye: 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.

Indication of immediate medical attention and special treatment needed, if necessary: If symptoms such as loss of gag reflex, convulsions, or unconsciousness occur before vomiting, gastric lavage with a cuffed endotracheal tube should be considered. Metabolism of isopropanol forms acetone, which may be detected in the urine or expired air. In contrast to diabetic acidosis, acidosis will occur in the absence of hyperglycemia. Hemodialysis should be considered in severe acute intoxications.

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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.

5. Fire-fighting measures

General hazard: Flammable Liquid. Can release vapors that form flammable mixtures at temperatures at or above the flash point. Empty containers retain product residue (liquid and/or vapor). DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide (CO₂), or dry chemical.

Hazardous combustion products: May include carbon monoxide and carbon dioxide.

Fire fighting procedures: Either allow fire to burn under controlled conditions or extinguish with alcohol type foam and dry chemical. Try to cover liquid spills with foam. Use water spray to cool fire exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors.

Fire fighting equipment: Self contained breathing apparatus and full protective turn-out gear.

6. Accidental release measures

Small spill: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. Consult an expert on disposal of recovered materials and ensure conformity to local disposal regulations.

Large spill: If in public area, keep public away and advise authorities. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. Consult Section 13 for disposal information.

Environmental precautions

Water spill: In the event of a water spill, eliminate all sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request that all stay clear.

Land spill: In the event of a land spill, prevent liquid from entering sewers, watercourses, or low areas.

7. Handling and storage

Precautions for safe 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.

Conditions for safe 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

Appropriate engineering controls: Provide general and/or local exhaust ventilation to control airborne levels below

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the OSHA/ACGIH exposure guidelines.

Individual protection measures, such as personal protective equipment

Eye / face protection: Wear splash goggles or glasses with face shield.

Skin protection - hand protection: Neoprene rubber gloves, impermeable gloves, cuffed butyl-rubber gloves, or nitrile rubber gloves.

Respiratory protection: 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.

Skin protection - other: Protective clothing and safety shoes as necessary to minimize contact.

Occupational hygiene 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

Appearance: Liquid

Color: Colorless

Odor: Slightly sharp alcohol odor.

Melting point: Not Applicable

Initial boiling point and boiling range: 82°C (180°F)

Flash point: 12°C (53°F)

Evaporation rate (n-butyl acetate = 1): < 2.3 (n-Butyl Acetate=1)

Lower explosion limit / flammability limit: 2.0 %

Upper explosion limit / flammability limit: 12.0 %

Vapor pressure: 33 mmHg at 20°C (68°F)

Relative vapor density: 2.07 (Air=1)

Relative density: 0.8400 to 0.8550 g/cc

Solubility: Partially Soluble

Auto-ignition temperature: 456°C (852°F)

10. Stability and reactivity

Dangerous polymerization: Will not occur under normal use and storage conditions.

Chemical 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

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compounds.

11. Toxicological information

General comments: No toxicological information available at this time.

12. Ecological information

Ecotoxicological information: May be harmful to aquatic life. Aquatic toxicity rating (TLm 96) = 10 to 1000 ppm. No food chain concentration potential.

General comments: No information on ecological toxicity or biodegradability is available at this time.

13. Disposal considerations

Disposal methods: 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.

General comments: This substance, when discarded or disposed of, could be hazardous waste according to Federal regulations (40 CFR 261) due to its characteristic of ignitability (D001). The transportation, storage, and disposal of this waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can occur only in properly permitted facilities. Check state and local regulations for any additional requirements, as these may be more restrictive than federal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in the MSDS incomplete, inaccurate or otherwise inappropriate.

14. Transport information

USA Department of Transport Regulations (DOT)

UN proper shipping name: Isopropanol Solution

UN number: UN 1219

Transport hazard class(es): 3

Packing group, if applicable: II

Placards: Flammable Liquid

Hazard label: Flammable Liquid

15. Regulatory information

UNITED STATES

SARA Section 311/312 Hazard Categories

311/312 Health hazards: Acute health, chronic health and fire hazard.

CERCLA Hazardous Substances and Reportable Quantities (RQ)

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

TSCA (The Toxic Substances 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.

CANADA

WHMIS Regulatory Status: WHMIS Hazardous Ingredients: 2-Propanol

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

16. Other information

Reason for issue: New format

Approved by: P. Han **Title:** **PHRASE NOT TRANSLATED - Code = Technical Director**

Prepared by: J. Saleda-Layton **Date revised:** 08/24/2022

Information contact: (630) 628-8083

Revision summary: This SDS replaces the 08/21/2017 SDS. Revised: **Section 2:** Classification of the substance or mixture, Label elements, Precautionary statement(s). **Section 9:** Relative density.

HMIS rating

Health	<input type="checkbox"/>	2
Flammability	<input type="checkbox"/>	3
Physical hazard	<input type="checkbox"/>	1
Personal protection	<input type="checkbox"/>	C

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