

MATERIAL SAFETY DATA SHEET

Conforms to ANSI Z400.1 and is in compliance with 29 CFR 1910

STRECK
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Section 1: Product Identification

Product Name: VC-100 Titration Solution
Synonyms: Indicator Solution

Section 2: Composition

Hazardous Component

Isopropyl Alcohol, <5% (v/v), CAS [67-63-0]

Exposure Limits of Hazardous Component

OSHA, TWA 400 ppm; ACGIH, STEL, 500ppm

Section 3: Hazards Identification

Emergency Overview:

CAUTION! Irritant
Causes eye irritation. May cause skin irritation, respiratory tract irritation, kidney damage, central nervous system depression. May be absorbed through skin.

Section 4: First Aid Measures

Ingestion:

Do not induce vomiting, call a physician immediately.

Skin Contact:

Remove any contaminated clothing. Rinse the contacted area with water, then wash with soap and water. Wash clothing before reuse. Seek medical aid if irritation develops or persists.

Eye Contact:

In case of contact, flush eyes with copious amounts of water for at least 15-20 minutes. Raise eyelids to be sure material is rinsed out. Call a physician.

Inhalation:

Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Section 5: Fire Fighting Measures

Isopropyl Alcohol, as a raw material, is flammable. This product, as provided, is not a significant hazard to consumers. This product is not flammable upon further review of labeling criteria in 16CFR1500.3(c)(6)(ii)(B) and review of the MSDS information.

Section 6: Accidental Release Measures

Spill Procedure: Ventilate area. Remove all ignition sources. Wear personal protective equipment as indicated in Section 8. Take up spill or leak with inert material (e.g. dry sand or earth).

Section 7: Handling and Storage

Handling Use with adequate ventilation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue; therefore, treat as if it contained product. Avoid contact with heat, sparks and flame. Avoid ingestion and inhalation.

Storage: Store according to package and label instructions. Avoid heat, sparks and flames (ignition sources). Avoid contact with oxidizing agents. Storage area should be well ventilated, cool and dry.

Section 8: Exposure Control and Personal Protection Equipment (PPE)

Ventilation: Use general room or exhaust ventilation to keep airborne concentrations below permissible exposure limits (OSHA, TWA 400ppm, ACGIH, STEL, 500ppm).

Respiratory Protection: Generally not required. In conditions of fumes or vapor generation, use an appropriate NIOSH/OSHA approved respirator.

Eye Protection: Eye irritant. Standard laboratory/chemical safety goggles or face shield recommended.

Gloves: Liquid impervious gloves

Other: Protective clothing as appropriate. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

Section 9: Physical and Chemical Properties

Appearance: Clear, colorless solution.

Section 10: Stability and Reactivity

Conditions to Avoid: Stable under normal conditions. Avoid excess heat, ignition sources and incompatible materials.

Material to Avoid: Incompatibilities: Strong oxidizers, acetaldehyde, chlorine, ethylene oxide, acids and isocyanates, hydrogen + palladium, nitroform, oleum, phosgene, potassium t-butoxide, oxygen, trinitromethane, barium perchlorate, tetrafluoroborate, chromium trioxide, sodium dichromate + sulfuric acid, aluminum and aluminum isoperoxide + crotonaldehyde, 2-butanone, hydrogen peroxide. Isopropyl alcohol has been reported to be susceptible to autoxidation and therefore must be considered peroxidizable.

Hazardous Combustion or Decomposition Products: Carbon monoxide, carbon dioxide, acrid smoke and fumes.

Section 11: Toxicological Properties

**Carcinogenic Effects
Toxicity:**

This material is not known to cause cancer in animals or humans.
Oral, mouse: LD₅₀ = 3600 mg/kg; oral rabbit: LD₅₀ = 6410 mg/kg; oral,
rat: LD₅₀ = 5045 mg/kg Dermal, rabbit: LD₅₀ = 12800 mg/kg
Tests on laboratory animals indicate material may produce adverse
mutagenic and reproductive effects.

Section 12: Ecological Information

Ecotoxicity:

Acute aquatic effects: fathead minnow: LC₅₀ = 1000 mg/L/96 Hr.,
golden orfe: LC₅₀ = 8970 mg/L/48 HR., goldfish LC₅₀ = >5000 mg/L/24
Hr.

Environmental Fate:

This product has a low potential to affect aquatic organisms, secondary
waste treatment microorganisms, and the germination and growth of
some plants. Product is readily biodegradable and is not expected to
persist in an aquatic environment. Product is not likely to be
bioconcentrate.

Section 13: Disposal Considerations

Observe all local, state, and federal environmental regulations.

Section 14: Transport Information

Department of Transportation Shipping Name: Combustible liquid n.o.s.; Hazard Class:
Combustible liquid; Identification Number: NA 1993; Packing Group III.

Section 15: Regulatory Information

Isopropyl alcohol is listed on TSCA inventory and is subject to Section 313 of SARA Title III and
40CFR Part 373 reporting.

Section 16: Other

Streck provides no warranties, either expressed or implied. It assumes no responsibility for the
accuracy or completeness of this material safety data sheet.