

DATE: 11/21/03 ACCT: 904841001 PAGE: 1
 INDEX: B33242352 CAT NO: SP62500 PO NBR: 3147
 **** MATERIAL SAFETY DATA SHEET ****

Phenolphthalein Solution 1%

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Phenolphthalein Solution 1%
 Catalog Numbers: S71429, S71976, S76970, NC9665542, SP62-1, SP62-500, X6655111
 Synonyms:
 Phenolphthalein Indicator Solution
 Company Identification: Fisher Scientific
 1 Reagent Lab 07410
 Emergency Number: 201-796-7100
 Emergency Number: 201-796-7100
 For CHEMREC assistance, call: 800-424-9300
 For International CHEMREC assistance, call: 703-527-3887

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	ETHICS#
67-63-0	Isopropyl alcohol	99	200-661-7
77-09-8	Phenolphthalein	1	201-004-7

Hazard Symbols: F
 Risk Phrases: 11
 **** SECTION 3 - HAZARDS IDENTIFICATION ****
 EMERGENCY OVERVIEW
 Appearance: colorless liquid. Flash point: 12 deg C.
 Warning: Flammable liquid and vapor. Causes respiratory tract irritation. May cause skin irritation. Causes eye irritation. May cause allergic skin reaction. May cause central nervous system depression. May cause kidney damage. May form explosive peroxides. May cause reproductive and fetal effects. May cause cancer based on animal studies. Kidneys, central nervous system.
 Target Organs: Kidneys, central nervous system.
 Potential Health Effects

Eye: Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury.
 Skin: May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Prolonged and/or repeated contact may cause dermatitis of the skin and dermatitis. May cause irritation with pain and stinging, especially if the skin is abraded. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause kidney damage. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.
 Inhalation: Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Inhalation of vapor may cause respiratory tract irritation.
 Chronic: Possible cancer hazard based on tests with laboratory animals. Prolonged or repeated skin contact may cause dermatitis and dermatitis. May cause kidney injury. May cause allergic skin reaction in some individuals.

**** SECTION 4 - FIRST AID MEASURES ****
 Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
 Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
 Ingest: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupsfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
 Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

5.167

DATE: 11/21/03 ACCT: 904841001 PAGE: 2
 INDEX: B33242352 CAT NO: SP62500 PO NBR: 3147

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information: Wear a self-contained breathing apparatus in areas in which fire is likely to occur. MSHA/NIOSH (approved or equivalent) and full protective gear. Vapors can travel to a source of ignition and flash back. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. This chemical poses an explosion hazard. May form explosive peroxides. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.
 Extinguishing Media: Use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Water may be ineffective. For large fires, use water spray, fog or alcohol-resistant foam. Do NOT use straight streams of water. Cool containers with flooding quantities of water until well after fire is out.
 Autoignition Temperature: 750 deg F (398.89 deg C)
 Flash Point: 12 deg C (53.60 deg F)
 Explosion Limits: Lower: 12.7%
 Explosion Limits: (estimated) Health: 1; Flammability: 0
 NFPA Rating: (estimated) Health: 1; Flammability: 3; Instability: 0

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****
 General Information: Use proper personal protective equipment as indicated in Section 8.
 Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, preventing them from entering the equipment section. Scoop up with a nonsparking tool in their place. Use equipment section for disposal. Remove all sources of ignition. Provide ventilation.

**** SECTION 7 - HANDLING AND STORAGE ****
 Handling: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Use spark-proof tools and explosion proof equipment. Avoid contact with skin, eyes, clothing and hair. Do not breathe vapors. Keep container tightly closed. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.
 Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Keep container closed when not in use. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****
 Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
 Personal Protective Equipment

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Isopropyl alcohol	200 ppm; 400 ppm STEL	400 ppm TWA; 980 mg/m ³ TWA	400 ppm TWA; 980 mg/m ³ TWA
Phenolphthalein	none listed	none listed	none listed

OSHA Vacated PELs:
 Isopropyl alcohol:
 400 ppm TWA; 980 mg/m³ TWA
 Phenolphthalein:
 No OSHA Vacated PELs are listed for this chemical.
 Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
 Skin: Wear appropriate gloves to prevent skin exposure.
 Clothing:

MSDS #: 00114P

DATE: 11/21/03
INDEX: B3242352

ACCT: 904841001
CAT NO: SF62500

FO NBR: 3147

PAGE: 5

CAS# 67-63-0: OES-United Kingdom, STEL 500 ppm STEL: 1250 mg/m3 STEL
CAS# 67-63-0: OES-United Kingdom, STEL 500 ppm STEL: 1250 mg/m3 STEL
United Kingdom Maximum Exposure Limits

Canada

CAS# 67-63-0 is listed on Canada's DSL List.
CAS# 77-09-8 is listed on Canada's DSL List.
This product has a WHMIS classification of B2, D2B.
CAS# 67-63-0 is listed on Canada's Ingredient Disclosure List.
CAS# 77-09-8 is not listed on Canada's Ingredient Disclosure List.
Exposure CAS# 67-63-0: OEL-AUSTRALIA:TWA 400 ppm (980 mg/m3);STEL 500 ppm (1225
mg/m3)

OEL-BELGIUM:TWA 400 ppm (985 mg/m3);STEL 500 ppm (1230 mg/m3)
OEL-DENMARK:TWA 200 ppm (490 mg/m3);Skin
OEL-FRANCE:STEL 400 ppm (980 mg/m3)
OEL-GERMANY:TWA 400 ppm (980 mg/m3)
OEL-JAPAN:STEL 400 ppm (980 mg/m3)
OEL-THE NETHERLANDS:TWA 400 ppm (980 mg/m3);Skin
OEL-THE PHILIPPINES:TWA 400 ppm (980 mg/m3)
OEL-RUSSIA:STEL 150 ppm (350 mg/m3);STEL 250 ppm (600 mg/m3)
OEL-SWITZERLAND:TWA 400 ppm (980 mg/m3);STEL 800 ppm
OEL-TURKEY:TWA 200 ppm (500 mg/m3)
OEL-UNITED KINGDOM:TWA 400 ppm (980 mg/m3);STEL 500 ppm;Skin
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA, CHECK ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGI TLV

*** SECTION 16 - ADDITIONAL INFORMATION ***

MSDS Creation Date: 7/27/1999 Revision #4 Date: 12/05/2002

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses or damages of any third party or for lost labels of any special labels, incidental, consequential or exemplary damages of any special labels, incidental, consequential or exemplary damages of any special labels, incidental, consequential or exemplary the possibility of such damages.