

Part of Thermo Fisher Scientific

Material Safety Data Sheet

Creation Date 20-Jul-2009 Revision Date 03-Oct-2012 Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Phenolphthalein Solution 1%

Cat No. SP62-1, SP62-500

Synonyms Phenolphthalein Indicator Solution

Recommended Use Laboratory chemicals

CompanyEmergency Telephone NumberFisher ScientificCHEMTREC®, Inside the USA: 800-One Reagent Lane424-9300

Fair Lawn, NJ 07410 CHEMTREC®, Outside the USA: 001-

Tel: (201) 796-7100 703-527-3887

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

Flammable liquid and vapor. Irritating to eyes, respiratory system and skin. Aspiration hazard if swallowed - can enter lungs and cause damage. Possible cancer hazard. May cause cancer based on animal data. May cause central nervous system effects. May form explosive peroxides.

Appearance Colorless Physical State Liquid odor Alcohol-like

Target Organs Skin, Eyes, Respiratory system, Central nervous system (CNS), Kidney

Potential Health Effects

Acute Effects

Principle Routes of Exposure

Eves Irritating to eyes.

Skin Irritating to skin. May be harmful in contact with skin. Inhalation Irritating to respiratory system. May be harmful if inhaled.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting

and diarrhea.

Chronic Effects Possible cancer hazard based on tests with laboratory animals. May cause adverse kidney

effects. May cause an allergic skin reaction.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

Component	CAS-No	Weight %
Isopropyl alcohol	67-63-0	99
Phenolphthalein	77-09-8	1

4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain

medical attention.

Skin ContactWash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Obtain medical attention.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point 12°C / 53.6°F

Method No information available.

Autoignition Temperature

Explosion Limits

Upper 12.7% **Lower** 2.0%

Suitable Extinguishing Media Carbon dioxide (CO₂). Dry chemical. alcohol-resistant foam. Water

spray. Cool containers with flooding quantities of water until well

after fire is out.

398.9°C

Unsuitable Extinguishing Media Water may be ineffective, Do not use a solid water stream as it may

scatter and spread fire

Hazardous Combustion Products No information available.

Sensitivity to mechanical impactNo information available.Sensitivity to static dischargeNo information available.

Specific Hazards Arising from the Chemical

Containers may explode when heated. May form explosive peroxides. Vapors may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.). Vapors may travel to source of ignition and flash back. Thermal decomposition can lead to release of irritating gases and vapors.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA Health 1 Flammability 3 Instability 0 Physical hazards N/A

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Remove all sources of

ignition. Take precautionary measures against static discharges.

Environmental PrecautionsShould not be released into the environment

Methods for Containment and Clean

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Soak up with inert absorbent material. Remove all sources of ignition. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment.

Keep container tightly closed in a dry and well-ventilated place.

7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Ensure adequate ventilation. Remove all sources of

ignition. Take precautionary measures against static discharges.

Storage Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly

closed in a dry, cool and well-ventilated place. Flammables area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and

safety showers are close to the workstation location.

Exposure GuidelinesThis product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol	TWA: 200 ppm	(Vacated) TWA: 400 ppm	IDLH: 2000 ppm
	STEL: 400 ppm	(Vacated) TWA: 980 mg/m ³	TWA: 400 ppm
		(Vacated) STEL: 500 ppm	TWA: 980 mg/m ³
		(Vacated) STEL: 1225 mg/m ³	STEL: 500 ppm
		TWA: 400 ppm	STEL: 1225 mg/m ³
		TWA: 980 mg/m ³	-

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Isopropyl alcohol	TWA: 400 ppm	TWA: 400 ppm	TWA: 200 ppm
	TWA: 985 mg/m ³	TWA: 980 mg/m ³	STEL: 400 ppm
	STEL: 500 ppm	STEL: 500 ppm	• •
	STEL: 1230 mg/m ³	STEL: 1225 mg/m ³	

NIOSH IDLH: Immediately Dangerous to Life or Health

Personal Protective Equipment

Eye/face Protection

Skin and body protection Respiratory Protection

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 Wear appropriate protective gloves and clothing to prevent skin exposure

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid **Appearance** Colorless odor Alcohol-like

Odor Threshold No information available. No information available. Ηq

Vapor Pressure 40 mmHg 2.1

Vapor Density

Viscosity No information available.

Boiling Point/Range 83°C / 181.4°F **Melting Point/Range** -89°C / 128.2°F

Decomposition temperature No information available.

12°C / 53.6°F **Flash Point**

Evaporation Rate 2.88 (Butyl Acetate = 1.0)

Specific Gravity 0.7855

Solubility Soluble in water log Pow No data available

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions. May form explosive peroxides.

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization Hazardous polymerization does not occur

Hazardous Reactions. None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation (Dust)
Isopropyl alcohol	5840 mg/kg (Rat)	13900 mg/kg (Rat)	72.6 mg/L (Rat) 4 h
		12870 mg/kg (Rabbit)	

Irritation Irritating to eyes, respiratory system and skin

Toxicologically Synergistic

Products

No information available.

Chronic Toxicity

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Mexico
Phenolphthalein	Not listed	Group 2B	Reasonably Anticipated	Χ	Not listed

Sensitization May cause sensitization by skin contact

Mutagenic Effects No information available.

Reproductive Effects Contains material that may cause adverse reproductive effects. May impair fertility.

Developmental Effects

No information available.

Teratogenicity

No information available.

Other Adverse Effects The toxicological properties have not been fully investigated.

Endocrine Disruptor Information No information available

Component EU - Endocrine Disrupters Candidate List		EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information	
Phenolphthalein	Group III Chemical	Not applicable	Not applicable	

12. ECOLOGICAL INFORMATION

Ecotoxicity

Do not empty into drains

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Isopropyl alcohol	1000 mg/L EC50 > 72 h 1000 mg/L EC50 > 96 h	1400000 μg/L LC50 96 h 9640 mg/L LC50 96 h 11130 mg/L LC50 96 h	= 35390 mg/L EC50 Photobacterium phosphoreum 5 min	13299 mg/L EC50 = 48 h 9714 mg/L EC50 = 24 h

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available

Mobility No information available

Component	log Pow
Isopropyl alcohol	0.05
Phenolphthalein	2.41

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

14. TRANSPORT INFORMATION

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DOT

UN-No UN1219

Proper Shipping Name ISOPROPANOL

Hazard Class 3
Packing Group ||

TDG

UN-No UN1219

Proper Shipping Name ISOPROPANOL

Hazard Class 3
Packing Group ||

IATA

UN-No UN1219

Proper Shipping Name ISOPROPANOL

Hazard Class 3
Packing Group ||

IMDG/IMO

UN-No UN1219

Proper Shipping Name ISOPROPANOL

Hazard Class 3
Packing Group ||

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Isopropyl alcohol	Х	Х	-	200-661- 7	-		Х	Х	Х	Х	Х
Phenolphthalein	Х	Х	-	201-004-	-		Х	Х	Х	Х	Х

Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Not applicable

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Isopropyl alcohol	67-63-0	99	1.0
Phenolphthalein	77-09-8	1	0.1

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

Not applicable

Clean Air Act

Not applicable

OSHA

Not applicable

CERCLA

Not Applicable

California Proposition 65

This product contains the following Proposition 65 chemicals:

The product contains and renorm,	9 : 10 00 01 01 01 01 01 01		
Component	CAS-No	California Prop. 65	Prop 65 NSRL
Phenolphthalein	77-09-8	Carcinogen	-

State Right-to-Know

Not applicable

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Isopropyl alcohol	X	X	Χ	=	Χ
Phenolphthalein	-	X	•	•	-

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

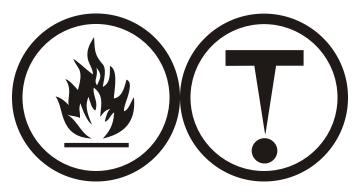
Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

B2 Flammable liquid D2A Very toxic materials D2B Toxic materials



16. OTHER INFORMATION

Prepared By Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

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Revision Summary "***", and red text indicates revision

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS