

## Material Safety Data Sheet

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Version 1.1  
Regulation (EC) No 1907/2006

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1 - Product and Company Information

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Product Name PHENOLPHTHALEIN SOLUTION 2 %, INDICATOR  
Product Number 34605  
  
Company Sigma-Aldrich Company Ltd.  
The Old Brickyard  
New Road, Gillingham SP8 4XT  
United Kingdom  
  
Technical Phone # 44-(0)-1747-833000  
Fax 44-(0)-1747-833313  
E-mail Address eurtechserv@sial.com  
Emergency Phone # 44-(0)-1747-833100

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2 - Hazards Identification

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SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT  
Flammable. Limited evidence of a carcinogenic effect.

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3 - Composition/Information on Ingredients

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Product Name	CAS #	EC no	Annex I Index Number	
PHENOLPHTHALEIN SOLUTION 2 % IN ETHANOL/WATER	None	None	None	
Ingredient Name	Percent	CAS #	EC no	Annex I Index Number
ETHYL ALCOHOL, NON-DENATURED, 200 PROOF Symbols: F R-Phrases: 11 Highly flammable.	63	64-17-5	200-578-6	603-002-00-5
WATER	35	7732-18-5	231-791-2	None
PHENOLPHTHALEIN Symbols: Xn R-Phrases: 40 Limited evidence of a carcinogenic effect.	2	77-09-8	201-004-7	None

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4 - First Aid Measures

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## AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

## AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

## AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

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5 - Fire Fighting Measures

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EXTINGUISHING MEDIA

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Flammable liquid. Vapor may travel considerable distance to source of ignition and flash back.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SPECIFIC METHOD(S) OF FIRE FIGHTING

Use water spray to cool fire-exposed containers.

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6 - Accidental Release Measures

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PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area. Shut off all sources of ignition.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

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7 - Handling and Storage

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HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat, sparks, and open flame.

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8 - Exposure Controls / Personal Protection

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ENGINEERING CONTROLS

Use only in a chemical fume hood. Safety shower and eye bath.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

EXPOSURE LIMITS

Country	Source	Type	Value
Poland		NDS	1900 MG/M3

Poland NDSCh -  
Poland NDSP -

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

Skin Protection: Chemical resistant apron.

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#### 9 - Physical and Chemical Properties

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Appearance	Physical State: Liquid Color: Colorless	
Property	Value	At Temperature or Pressure
pH	N/A	
BP/BP Range	80 °C	760 mmHg
MP/MP Range	N/A	
Flash Point	24 °C	Method: closed cup
Flammability	N/A	
Autoignition Temp	N/A	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	Lower: 3.4 % Upper: 15 %	
Vapor Pressure	N/A	
SG/Density	0.9 g/cm <sup>3</sup>	20 °C
Partition Coefficient	N/A	
Viscosity	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Evaporation Rate	N/A	
Bulk Density	N/A	
Decomposition Temp.	N/A	
Solvent Content	N/A	
Water Content	N/A	
Surface Tension	N/A	
Conductivity	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

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#### 10 - Stability and Reactivity

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##### STABILITY

Stable: Stable.

Materials to Avoid: Acids, Acid chlorides, Acid anhydrides, Alkali metals, Ammonia, Oxidizing agents, Peroxides.

##### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

##### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

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#### 11 - Toxicological Information

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#### SIGNS AND SYMPTOMS OF EXPOSURE

Nausea, headache, and vomiting. Narcotic effect. Exposure can cause: Can cause CNS depression. Electrolyte imbalance. Exerts regulatory influence on metabolism of electrolytes and water. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Diarrhea, upset stomach, weakness.

#### ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.  
Skin Absorption: May be harmful if absorbed through the skin.  
Eye Contact: May cause eye irritation.  
Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.  
Ingestion: May be harmful if swallowed.

#### TARGET ORGAN INFORMATION

Bowel. Thymus. Adrenal medulla. Heart. Liver. Nerves.

#### CHRONIC EXPOSURE - CARCINOGEN

Result: This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

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#### 12 - Ecological Information

No data available.

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#### 13 - Disposal Considerations

#### SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

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#### 14 - Transport Information

#### RID/ADR

UN#: 1170  
Class: 3  
PG: III  
Proper Shipping Name: Ethanol solution

#### IMDG

UN#: 1170  
Class: 3  
PG: III  
Proper Shipping Name: ETHANOL SOLUTIONS  
Marine Pollutant: No  
Severe Marine Pollutant: No

#### IATA

UN#: 1170  
Class: 3  
PG: III  
Proper Shipping Name: Ethanol solution  
Inhalation Packing Group I: No

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#### 15 - Regulatory Information

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CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: Xn

Harmful.

R-PHRASES: 10-40

Flammable. Limited evidence of a carcinogenic effect.

S-PHRASES: 36/37

Wear suitable protective clothing and gloves.

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 2

Self-Classification

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16 - Other Information

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WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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