Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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· Product identifier
 Trade name: <u>Phenolphthalein Solution Special</u>, Product code: DUPH1801-G
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available.
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: Dubois Chemicals Inc. 3630 East Kemper Rd, Cincinnati, OH 45241 (800) 438-2647
Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)
2 Hazard(s) identification
Classification of the substance or mixture
Flam. Liq. 2 H225 Highly flammable liquid and vapor.
Eye Irrit. 2A H319 Causes serious eye irritation.
Eye Irrit. 2AH319Causes serious eye irritation.Muta. 2H341Suspected of causing genetic defects.
Eye Irrit. 2AH319Causes serious eye irritation.Muta. 2H341Suspected of causing genetic defects.
Eye Irrit. 2AH319Causes serious eye irritation.Muta. 2H341Suspected of causing genetic defects.Carc. 1BH350May cause cancer.
Eye Irrit. 2AH319Causes serious eye irritation.Muta. 2H341Suspected of causing genetic defects.Carc. 1BH350May cause cancer.Repr. 2H361Suspected of damaging fertility or the unborn child.
 Eye Irrit. 2A H319 Causes serious eye irritation. Muta. 2 H341 Suspected of causing genetic defects. Carc. 1B H350 May cause cancer. Repr. 2 H361 Suspected of damaging fertility or the unborn child. STOT SE 3 H336 May cause drowsiness or dizziness. Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms:
Eye Irrit. 2A H319 Causes serious eye irritation. Muta. 2 H341 Suspected of causing genetic defects. Carc. 1B H350 May cause cancer. Repr. 2 H361 Suspected of damaging fertility or the unborn child. STOT SE 3 H336 May cause drowsiness or dizziness. Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
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 Eye Irrit. 2A H319 Causes serious eye irritation. Muta. 2 H341 Suspected of causing genetic defects. Carc. 1B H350 May cause cancer. Repr. 2 H361 Suspected of damaging fertility or the unborn child. STOT SE 3 H336 May cause drowsiness or dizziness. Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms:

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Trade name: Phenolphthalein Solution Special, (Cont'd. of page 1) H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child. H336 May cause drowsiness or dizziness. **Precautionary statements:** P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. P241 P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing mist, vapors, or spray. P264 Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. P271 Wear protective gloves/protective clothing/eye protection/face protection. P280 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. P308+P313 P337+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use for extinction: Alcohol resistant foam or water spray. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. **Other hazards** There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

components.	
67-63-0 Propan-2-ol	43.5%
Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336	
C Eye Irrit. 2A, H319; STOT SE 3, H336	
77-09-8 phenolphthalein	1.1%
🚸 Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361	
7732-18-5 Water	55.4%
Additional information	

Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

[•] Description of first aid measures

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	(Cont'd. of pa
General information: Immediately remove any clothing soiled by the	product.
After inhalation: Supply fresh air; consult doctor in case of complaint	ts.
After skin contact:	
If on skin (or hair): Take off immediately all contaminated clothing. Rin	nse skin with water/shower.
If skin irritation is experienced, consult a doctor.	
After eye contact:	
Remove contact lenses if worn.	
Rinse opened eye for several minutes under running water. If sympto	ms persist, consult a doctor.
After swallowing:	•
Rinse out mouth and then drink plenty of water.	
Do not induce vomiting; immediately call for medical help.	
Most important symptoms and effects, both acute and delayed:	
Causes serious eye irritation.	
Breathing difficulty	
Coughing	
Causes mild skin irritation.	
Gastric or intestinal disorders when ingested.	
Nausea in case of ingestion.	
Dizziness	
Acidosis	
Disorientation	
Unconsciousness	
Danger:	
May cause drowsiness or dizziness.	
Danger of impaired breathing.	
Suspected of causing genetic defects.	
May cause cancer.	
Suspected of damaging fertility or the unborn child.	
Indication of any immediate medical attention and special treatm	ent needed:
If medical advice is needed, have product container or label at hand.	

• Extinguishing media

· Suitable extinguishing agents: Alcohol resistant foam Water fog / haze Carbon dioxide Gaseous extinguishing agents Fire-extinguishing powder • For safety reasons unsuitable extinguishing agents: Water stream. • Special hazards arising from the substance or mixture Highly flammable liquid and vapor. Formation of toxic gases is possible during heating or in case of fire. Advice for firefighters · Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit. Additional information: Eliminate all ignition sources if safe to do so.

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Use large quantities of foam as it is partially destroyed by the product. Cool endangered receptacles with water in flooding quantities.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Ensure adequate ventilation.

Keep away from ignition sources.

Protect from heat.

Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

[·] Handling

- · Precautions for safe handling:
- Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Information about protection against explosions and fires:

Highly flammable liquid and vapor.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

[•] Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Due to photo-sensitivity, store product in brown-glass or stainless steel receptacles.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

• Further information about storage conditions:

Keep containers tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No relevant information available.

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8 Exposure co	ontrols/personal protection	
	with limit values that require monitoring at the workplace: constituent is the only constituent of the product which has a PEL, TLV c	or othe
67-63-0 Propan	•	
PEL (USA)	Long-term value: 980 mg/m³, 400 ppm	
REL (USA)	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm	
TLV (USA)	Short-term value: 984 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm BEI	
EL (Canada)	Short-term value: 400 ppm Long-term value: 200 ppm	
EV (Canada)	Short-term value: 400 ppm Long-term value: 200 ppm	
LMPE (Mexico)	Short-term value: 400 ppm Long-term value: 200 ppm A4, IBE	
	th biological limit values:	
67-63-0 Propan		
Time	mg/L dium: urine ie: end of shift at end of workweek ameter: Acetone (background, nonspecific)	
The usual preca Keep away from Immediately ren Wash hands be Do not inhale du Engineering co Breathing equi Not required und Use suitable res	ctive and hygienic measures: autionary measures for handling chemicals should be followed. In foodstuffs, beverages and feed. move all soiled and contaminated clothing. efore breaks and at the end of work. ust / smoke / mist. ontrols: Provide adequate ventilation. ipment: inder normal conditions of use. spiratory protective device when high concentrations are present. approved organic vapor respirator equipped with a dust/mist prefilter should be used	I.
IN		
Protect	tive gloves	
	erial has to be impermeable and resistant to the product/ the substance/ the prepara eves gloves.	ition.

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Neoprene gloves Butyl rubber, BR Not suitable are gloves made of the following materials: PVC gloves **PVA** gloves · Eye protection:

Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· Body protection: Solvent resistant protective clothing

Limitation and supervision of exposure into the environment No relevant information available.

9 Physical and chemical prope	rties
Information on basic physical a	nd chemical properties
· Appearance:	
Form:	Liquid
Color:	Clear, colorless
· Odor:	Like alcohol
· Odor threshold:	Not determined.
· pH-value:	Not determined.
 Melting point/Melting range: 	Not determined.
 Boiling point/Boiling range: 	>78 °C (>172.4 °F)
· Flash point:	<23 °C (<73.4 °F)
· Flammability (solid, gaseous):	Not applicable.
· Auto-ignition temperature:	>260 °C (>500 °F)
· Decomposition temperature:	Not determined.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
 Oxidizing properties: 	Not determined.
· Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)
· Density at 20 °C (68 °F):	0.9-0.92 g/cm³ (7.51-7.68 lbs/gal)
· Relative density:	Not determined.
· Vapor density:	Not determined.
Evaporation rate:	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
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· Partition coefficient (n-octanol/water): Not determined.

· Viscosity

Dynamic: Kinematic: Other information Not determined. Not determined. No relevant information available.

10 Stability and reactivity

· Reactivity: No relevant information available.

· Chemical stability: Stable under normal temperatures and pressures.

· Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

[•] Possibility of hazardous reactions

Reacts violently with oxidizing agents.

Highly flammable liquid and vapor.

Toxic fumes may be released if heated above the decomposition point.

Used empty containers may contain product gases which form explosive mixtures with air.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

[•] Conditions to avoid Keep ignition sources away - Do not smoke.

· Incompatible materials Oxidizing agents.

Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

11 Toxicological information

Information on toxicological effects

· Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification: None.

· Primary irritant effect:

· On the skin: Causes mild skin irritation.

· On the eye: Causes eye irritation.

• Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

67-63-0 Propan-2-ol

77-09-8 phenolphthalein

• NTP (National Toxicology Program):

77-09-8 phenolphthalein

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

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Skin contact. • Acute effects (acute toxicity, irritation and corrosivity):

Irritating to eyes.

Causes mild skin irritation.

Vapors have narcotic effect.

• Repeated dose toxicity: Danger of very serious irreversible effects.

· Germ cell mutagenicity: Suspected of causing genetic defects.

· Carcinogenicity: May cause cancer.

• **STOT-single exposure:** May cause drowsiness or dizziness.

• STOT-repeated exposure: Based on available data, the classification criteria are not met.

· Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

[·] Toxicity

· Aquatic toxicity No relevant information available.

- · Persistence and degradability No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- Mobility in soil: No relevant information available.
- Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Other adverse effects No relevant information available.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

[·] Uncleaned packagings

- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number	
· DOT, ADR/RID/ADN, IMDG, IATA	UN1219
· UN proper shipping name	
DOT	Isopropanol Solution
· ADR/RID/ADN, IMDG, IATA	ISOPROPANOL (ISOPROPYL ALCOHOL) SOLUTIO

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	(Cont	t'd. of p
Transport hazard class(es)		
DOT		
3		
♥ Class	3	
Label	3	
ADR/RID/ADN		
♥ Class	3 (F1)	
Label	3	
IMDG, IATA		
♥ Class	3	
Label	3	
Packing group		
DOT, ADR/RID/ADN, IMDG, IATA	II	
Environmental hazards	Not applicable.	
Special precautions for user	Warning: Flammable liquids	
Hazard identification number (Kemler code		
EMS Number:	F-E,S-D	
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	of Not applicable.	

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
 United States (USA)
 SARA
 Section 302 (extremely hazardous substances):

 None of the ingredients are listed.
 Section 313 (Specific toxic chemical listings):
 67-63-0 Propan-2-ol
 77-09-8 phenolphthalein
 (Cont'd. on page 10)

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Trade name: Phenolphthalein Solution Special, (Cont'd. of page 9) TSCA (Toxic Substances Control Act) All ingredients are listed or exempt. Proposition 65 (California) · Chemicals known to cause cancer: 77-09-8 phenolphthalein Chemicals known to cause developmental toxicity for females: None of the ingredients are listed. Chemicals known to cause developmental toxicity for males: None of the ingredients are listed. Chemicals known to cause developmental toxicity: None of the ingredients are listed. · EPA (Environmental Protection Agency): None of the ingredients are listed. · IARC (International Agency for Research on Cancer): 67-63-0 Propan-2-ol 3 77-09-8 phenolphthalein 2B Canadian Domestic Substances List (DSL): All ingredients listed on DSL or NDSL.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Flam. Liq. 2: Flammable liquids - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Muta. 2: Germ cell mutagenicity - Category 2 Carc. 1B: Carcinogenicity - Category 1B Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers

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SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtel.com