Agilent

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

1 Identification

- · Product identifier
- · Trade name: Phenol Standard (1X1 mL)
- · Part number: PHM-824-1
- · Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use
- · Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Agilent Technologies, Inc. 5301 Stevens Creek Blvd. Santa Clara, CA 95051 USA

· Information department:

Telephone: 800-227-9770 e-mail: pdl-msds_author@agilent.com • Emergency telephone number: CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

· Classification of the substance or mixture

GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

GHS08 Health hazard

Repr. 1B

H360 May damage fertility or the unborn child.

GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

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



· Signal word Danger

Hazard-determining components of labeling: propan-2-ol dinoseb
Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation.

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(Contd. of page 1) May damage fertility or the unborn child. May cause drowsiness or dizziness. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 3Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH ² Health = 2FIRE 3 Fire = 3**REACTIVITY** Reactivity = 0· Other hazards · Results of PBT and vPvB assessment • **PBT:** Not applicable. • **vPvB:** Not applicable. **3** Composition/information on ingredients · Chemical characterization: Mixtures · Description: Mixture of the substances listed below with nonhazardous additions. · Dangerous components:

67-63-0 propan-2-ol

97.71% (Contd. on page 3)

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88-85-7 dinoseb

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4 First-aid measures

· Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- 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.
- · Protective Action Criteria for Chemicals

· PAC-1:		
	propan-2-ol	400 ppm
95-57-8	2-chlorophenol	2.3 mg/m ³
	2,4-xylenol	6.9 mg/m ³
51-28-5	2,4-dinitrophenol	0.61 mg/m ³
95-95-4	2,4,5-trichlorophenol	2.5 mg/m ³
88-85-7	dinoseb	0.41 mg/m ³
	(Contd. on page 4)



0.255%

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		(Contd. of page 3
87-65-0 2,6-dichlorop	henol	8.8 mg/m ³
· PAC-2:		
67-63-0 propan-2-ol		2000* ppm
95-57-8 2-chlorophene	bl	25 mg/m ³
105-67-9 2,4-xylenol	-9 2,4-xylenol 76 mg	
51-28-5 2,4-dinitrophe	enol	6.8 mg/m ³
95-95-4 2,4,5-trichloro	ophenol	27 mg/m ³
88-85-7 dinoseb		4.5 mg/m ³
87-65-0 2,6-dichlorop	henol	97 mg/m ³
· PAC-3:		
67-63-0 propan-2-ol		12000** ppm
95-57-8 2-chlorophene	bl	150 mg/m ³
105-67-9 2,4-xylenol		460 mg/m ³
51-28-5 2,4-dinitrophe	enol	16 mg/m ³
95-95-4 2,4,5-trichloro	ophenol	160 mg/m ³
88-85-7 dinoseb		5.4 mg/m ³
87-65-0 2,6-dichlorop	henol	580 mg/m ³

7 Handling and storage

· Handling:

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.

• **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

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Com	ponents with limit values that require monitoring at the workplace:
67-63	B-0 propan-2-ol
PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm
	Long-term value: 980 mg/m ³ , 400 ppm
TI V	Short-term value: 984 mg/m ³ , 400 ppm
12,	Long-term value: 492 mg/m ³ , 200 ppm
	BEI
Ingre	edients with biological limit values:
67-63	3-0 propan-2-ol
BEI	40 mg/L
	Medium: urine
	Time: end of shift at end of workweek
	Parameter: Acetone (background, nonspecific)
Addi	tional information: The lists that were valid during the creation were used as basis.
Keep Imme Wash Store	ral protective and hygienic measures: away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. hands before breaks and at the end of work. protective clothing separately.
Keep Imme Wash Store Avoid Brea Wher with s neede Unde devic	away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. hands before breaks and at the end of work. protective clothing separately. d contact with the eyes. d contact with the eyes and skin. thing equipment: n used as intended with Agilent instruments, the use of the product under normal laboratory conditions and standard practices does not result in significant airborne exposures and therefore respiratory protection is need. r an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved e/equipment with appropriate organic or acid gas cartridge.
Keep Imme Wash Store Avoid Brea Wher with s neede Unde devic Prote	away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. hands before breaks and at the end of work. protective clothing separately. d contact with the eyes. d contact with the eyes and skin. thing equipment: n used as intended with Agilent instruments, the use of the product under normal laboratory conditions and standard practices does not result in significant airborne exposures and therefore respiratory protection is r ed. r an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved e/equipment with appropriate organic or acid gas cartridge. ection of hands:
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Keep Imme Wash Store Avoid Brea Wher with neede Unde devic Prote Altho thickin direct exceed	away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. hands before breaks and at the end of work. protective clothing separately. d contact with the eyes and skin. thing equipment: a used as intended with Agilent instruments, the use of the product under normal laboratory conditions and standard practices does not result in significant airborne exposures and therefore respiratory protection is n ed. r an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved e/equipment with appropriate organic or acid gas cartridge. ection of hands: ugh not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil ness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is is contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough tim ding 4 hrs. Supplier recommendations should be followed.
Keep Imme Wash Store Avoid Brea Wher with neede Unde devic Prote Altho thickn direct excee Mate	away from foodstuffs, beverages and feed. diately remove all soiled and contaminated clothing. hands before breaks and at the end of work. protective clothing separately. d contact with the eyes. d contact with the eyes and skin. thing equipment: n used as intended with Agilent instruments, the use of the product under normal laboratory conditions and standard practices does not result in significant airborne exposures and therefore respiratory protection is n ed. r an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved e/equipment with appropriate organic or acid gas cartridge. ection of hands: ugh not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil hess are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is t contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough time ding 4 hrs. Supplier recommendations should be followed. trial of gloves
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Keep Imme Wash Store Avoid Brea Wher with a neede Unde device Prote Althout thick direct exceee Mate For n For d Pene	away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. hands before breaks and at the end of work. protective clothing separately. d contact with the eyes. d contact with the eyes and skin. thing equipment: a used as intended with Agilent instruments, the use of the product under normal laboratory conditions and standard practices does not result in significant airborne exposures and therefore respiratory protection is n ed. r an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved e/equipment with appropriate organic or acid gas cartridge. ection of hands: ugh not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil ness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is is contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough time ding 4 hrs. Supplier recommendations should be followed. trial of gloves ormal use: nitrile rubber, 11-13 mil thickness irect contact with the chemical: butyl rubber, 12-15 mil thickness tration time of glove material
Keep Imme Wash Store Avoid Brea Wher with a neede Unde device Proto Althout thick direct excees Mate For n For d Pene For n	away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. hands before breaks and at the end of work. protective clothing separately. d contact with the eyes. d contact with the eyes and skin. thing equipment: n used as intended with Agilent instruments, the use of the product under normal laboratory conditions and standard practices does not result in significant airborne exposures and therefore respiratory protection is n ed. r an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved e/equipment with appropriate organic or acid gas cartridge. exction of hands: ugh not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil ness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough time ding 4 hrs. Supplier recommendations should be followed. trial of gloves ormal use: nitrile rubber, 11-13 mil thickness irect contact with the chemical: butyl rubber, 12-15 mil thickness



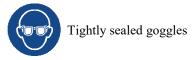
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· Eye protection:



	chemical properties
General Information	
Appearance:	T 1. ' 1
Form: Color:	Fluid Clear
Odor:	Alcohol-like
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-89.5 °C (-129.1 °F)
Boiling point/Boiling range:	82 °C (179.6 °F)
Flash point:	12 °C (53.6 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	425 °C (797 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:	
Lower:	2 Vol %
Upper:	12 Vol %
Vapor pressure at 20 °C (68 °F):	35 hPa (26.3 mm Hg)
Density at 20 °C (68 °F):	0.79526 g/cm ³ (6.63644 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water at 20 °C (68 °F):	1 g/l
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic: Kinematic:	Not determined. Not determined.



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		(Contd. of page 6)
• Solvent content: Organic solvents: VOC content:	98.0 % 97.96 % 779.1 g/l / 6.50 lb/gal	
Solids content: • Other information	1.5 % No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50	values tha	t are relevant for classification:
ATE (Acu	ite Toxicity	y Estimate)
Oral	LD50	2,335 mg/kg (rat)
Dermal	LD50	23,525 mg/kg
Inhalative	LC50/4 h	66 mg/L
67-63-0 pi	ropan-2-ol	
Oral	LD50	4,710 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rat)
		12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	72.6 mg/L (rat)
58-90-2 2,	3,4,6-tetra	chlorophenol
Oral	LD50	140 mg/kg (rat)
Dermal	LD50	250 mg/kg (rabbit)
95-95-4 2,	4,5-trichlo	rophenol
Oral	LD50	820 mg/kg (rat)
88-85-7 di	noseb	
Oral	LD50	27 mg/kg (rat)
Dermal	LD50	217.5 mg/kg (rat)
· Primary i		
• on the ski		
• on the eye		effects known.
Sensitizati		(Contd. on page 8)



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· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
67-63-0 propan-2-ol	3
95-57-8 2-chlorophenol	2B
58-90-2 2,3,4,6-tetrachlorophenol	2B
95-95-4 2,4,5-trichlorophenol	2B
87-65-0 2,6-dichlorophenol	2B
·NTP (National Toxicology Program)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further 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.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

14 Transport information

· Not Regulated, De minimus Quantities

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· UN-Number · DOT, IMDG, IATA	UN1993
· UN proper shipping name · DOT · IMDG, IATA	Flammable liquids, n.o.s. (Isopropanol) FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))
· Transport hazard class(es)	
· DOT, IMDG, IATA	
· Class · Label	3 Flammable liquids
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category 	Warning: Flammable liquids 33 F-E, <u>S-E</u> B
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL)), 3, II

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

88-85-7 dinoseb

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Safety Data Sheet acc. to OSHA HCS

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· Section 313 (Specific toxic chemical listings):

All ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

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· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

88-85-7 dinoseb

· Chemicals known to cause developmental toxicity:

88-85-7 dinoseb

· Carcinogenic categories

· EPA (Environmental Protection Agency)

108-39-4 m-cresol

106-44-5 p-cresol

88-85-7 dinoseb

· TLV (Threshold Limit Value established by ACGIH)

67-63-0 propan-2-ol

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· Department issuing SDS: Document Control / Regulatory

ADR: Accord européen sur le transport des marchandises dangereuses par Route (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
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative





[·] Contact: regulatory@ultrasci.com

[·] Date of preparation / last revision 03/30/2019 / 1

[·] Abbreviations and acronyms:

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US

NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 2: Flammable liquids – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Repr. 1B: Reproductive toxicity – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 • * Data compared to the previous version altered.



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