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

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### **1** Identification Product identifier Trade name: Test Solution 51, 500 mL · Product code: DUTS-51-P 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. STOT SE 3 H336 May cause drowsiness or dizziness. <sup>•</sup> Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms: GHS02 GHS07 · Signal word: Danger · Hazard statements: H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. Precautionary statements: P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed.

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### Trade name: Test Solution 51, 500 mL (Cont'd. of page 1) 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. P271 Use only outdoors or in a well-ventilated area. Wear protective gloves / 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. Call a poison center/doctor if you feel unwell. P312 P337+P313 If eye irritation persists: Get medical advice/attention. In case of fire: Use for extinction: Alcohol resistant foam or water spray. P370+P378 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

### <sup>•</sup> Chemical characterization: Substances

· Components:		
	Propan-2-ol	99.99%
	<ul> <li>Flam. Liq. 2, H225</li> <li>Eye Irrit. 2A, H319; STOT SE 3, H336</li> </ul>	
	phenolphthalein	0.01%
	🗞 Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361	

### 4 First-aid measures

### <sup>•</sup> Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

### · After inhalation:

Supply fresh air.

Seek immediate medical advice.

Provide oxygen treatment if affected person has difficulty breathing.

If experiencing respiratory symptoms: Call a doctor.

### · After skin contact:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse 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 symptoms persist, consult a doctor.

### After swallowing:

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	(Cont'd. of page
Rinse out mouth and then drink plenty of wa	
Do not induce vomiting; immediately call for	
Most important symptoms and effects, b	
Dizziness	
Coughing	
Causes eye irritation.	
Breathing difficulty	
Gastric or intestinal disorders when ingested	d.
Diarrhea.	
Acidosis	
· Danger:	
May cause drowsiness or dizziness.	
Danger of impaired breathing.	
Causes mild skin irritation.	
<ul> <li>Indication of any immediate medical atteration</li> </ul>	ntion and special treatment needed:
If necessary oxygen respiration treatment.	
If medical advice is needed, have product co	ontainer or label at hand.
Gaseous extinguishing agents Water fog / haze Water spray Fire-extinguishing powder • For safety reasons unsuitable extinguish • Special hazards arising from the substar	nce or mixture
<ul> <li>Highly flammable liquid and vapor.</li> <li>Formation of toxic gases is possible during linear set of the set of th</li></ul>	·
Formation of toxic gases is possible during Advice for firefighters Protective equipment:	·
Formation of toxic gases is possible during Advice for firefighters Protective equipment: Wear self-contained respiratory protective d Wear fully protective suit.	levice.
Formation of toxic gases is possible during I Advice for firefighters Protective equipment: Wear self-contained respiratory protective d Wear fully protective suit. Additional information:	levice.
Formation of toxic gases is possible during for <b>Advice for firefighters</b> Protective equipment: Wear self-contained respiratory protective down and the wear fully protective suit. Additional information: Eliminate all ignition sources if safe to do so	levice. destroyed by the product.
<ul> <li>Formation of toxic gases is possible during for the set of the set o</li></ul>	levice. destroyed by the product.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

Protect from heat.

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

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### • Environmental precautions

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Do not allow undiluted product or large quantities of it to reach ground water, 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

### <sup>·</sup> 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 well-ventilated place. Keep cool.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

Do not store together with strong acids.

- 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.

### 8 Exposure controls/personal protection

### <sup>·</sup> Control parameters

### · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

67-63-0 Prop	an-2-ol
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
-	(Cont'd. on page

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TLV (USA)	(Cont'd. of page 4) Short-term value: 984 mg/m³, 400 ppm
	Long-term value: 492 mg/m³, 200 ppm BEI
EL (Canada	a) Short-term value: 400 ppm Long-term value: 200 ppm
EV (Canada	a) Short-term value: 400 ppm Long-term value: 200 ppm
LMPE (Mex	ico) Short-term value: 400 ppm Long-term value: 200 ppm A4, IBE
· Ingredients	s with biological limit values:
67-63-0 Pro	•
	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
Avoid breat • Engineerin • Breathing of Not required In case of ir NIOSH or E • Protection	d under normal conditions of use. nadequate ventilation wear respiratory protection. N approved organic vapor respirator equipped with a dust/mist prefilter should be used.
	er, NBR r, BR loves per, NR ion by the components in the glove materials is possible. <b>e are gloves made of the following materials:</b> PVA gloves
Sat	fety glasses
<ul> <li>Body prote</li> </ul>	vant national guidelines concerning the use of protective eyewear. ection: Protective work clothing and supervision of exposure into the environment
	(Cont'd. on page 6

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### Trade name: Test Solution 51, 500 mL

No relevant information available.

9 Physical and chemical properties		
<ul> <li>Information on basic physical ar</li> <li>Appearance:</li> </ul>	nd chemical properties	
Form:	Liquid	
Color:	Clear	
Odor:	Alcohol-like	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
Melting point/Melting range:	-89.5 °C (-129.1 °F)	
· Boiling point/Boiling range:	82 °C (179.6 °F)	
· Flash point:	13 °C (55.4 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Auto-ignition temperature:	425 °C (797 °F)	
· Decomposition temperature:	Not determined.	
<sup>.</sup> Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.	
· Explosion limits		
Lower:	2 Vol %	
Upper:	12 Vol %	
· Oxidizing properties:	Non-oxidizing.	
· Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)	
· Density at 20 °C (68 °F):	0.79 g/cm³ (6.59 lbs/gal)	
Relative density:	Not determined.	
Vapor density:	Not determined.	
· Evaporation rate:	Not determined.	
<ul> <li>Solubility in / Miscibility with Water at 20 °C (68 °F):</li> </ul>	1 c/l	
	1 g/l	
Partition coefficient (n-octanol/wate	r): Not determined.	
· Viscosity		
Dynamic at 20 °C (68 °F):	2.43 mPas	
Kinematic:	Not determined.	
• Other information	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:

(Cont'd. on page 7)

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Frade name:	Test So	lution 51, 500 mL	
Possibili Reacts vio Used emp Can form e Highly flam Reacts wit Condition Keep igniti Excessive Incompa Oxidizing a Strong acid	ty of haz lently with ty contain explosive mable lic h strong a ns to av on source heat. tible ma agents. ds us decoi	oid es away - Do not smoke. terials mposition products	
		nd carbon dioxide	
11 Toxicolo	ogical ir	nformation	
· Acute tox	<b>icity:</b> Bas	oxicological effects sed on available data, the classification criteria are not met. at are relevant for classification:	
67-63-0 Pi			
	LD50	5045 mg/kg (rat)	
Dermal	LD50	12800 mg/kg (rabbit)	
Inhalative	LC50/4h	30 mg/l (rat)	
· On the ey	<b>in:</b> ild skin irr available <b>e:</b> Cause:		
		I Agency for Research on Cancer):	
67-63-0 P			3
77-09-8 p	nenolphth	nalein	2B
NTP (Nati	onal Tox	icology Program):	
77-09-8 p	henolphth	nalein	R
1-	· ·	tional Safety & Health Administration):	
	• •	ents are listed.	
	route(s) o	of exposure:	
Skin conta			
Skin conta	ects (acut	te toxicity, irritation and corrosivity): irritation.	

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Vapors have narcotic effect.

Causes mild skin irritation.

• Repeated dose toxicity: No relevant information available.

· Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

• **Reproductive toxicity:** Based on available data, the classification criteria are not met.

· 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**

### <sup>·</sup> 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**

### <sup>·</sup> Waste treatment methods

### · Recommendation:

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.

### <sup>·</sup> Uncleaned packagings

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

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

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	(Cont'd. of pa
DOT	
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	Ш
Environmental hazards	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	33
EMS Number:	F-E,S-D
Transport in bulk according to Annex II o	
MARPOL73/78 and the IBC Code	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): All ingredients are listed. TSCA (Toxic Substances Control Act) All ingredients are listed or exempt.

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(Cont'd. of page 9)
· 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):
All ingredients listed on DSL or NDSL.
Canadian Domestic Substances List (DSL):
None of the ingredients are listed.
<ul> <li>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 &amp; 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. 18: Carcinogenicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 <b>Sources</b> 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.</li> </ul>
Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 (Cont'd. on page 11)

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