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# **Safety Data Sheet**

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

Revision: July 10, 2019

#### 1 Identification

· Product identifier

· Trade name: Test Solution 51, Gallon

· Product code: DUTS-51-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:

AguaPhoenix Scientific, Inc.

860 Gitts Run Road

Hanover, PA 17331

Phone: (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.

#### · 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.

(Cont'd. on page 2)

# **Safety Data Sheet**

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# Trade name: Test Solution 51, Gallon

	(Cont'd. of page 1)
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
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.
P280	Wear protective gloves / eye protection / face protection.
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.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
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: Substances

· Compoi	· Components:		
67-63-0	Propan-2-ol	<ul><li>♠ Flam. Liq. 2, H225</li><li>♠ Eye Irrit. 2A, H319; STOT SE 3, H336</li></ul>	99.99%
77-09-8	phenolphthalein	Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361	0.01%

# 4 First-aid measures

- 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:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

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· Most important symptoms and effects, both acute and delayed:

(Cont'd. of page 2)

Dizziness

Coughing

Causes eve irritation.

Breathing difficulty

Gastric or intestinal disorders when ingested.

Diarrhea.

Acidosis

· Danger:

May cause drowsiness or dizziness.

Danger of impaired breathing.

Causes mild skin irritation.

Indication of any immediate medical attention and special treatment needed:

If necessary oxygen respiration treatment.

If medical advice is needed, have product container or label at hand.

# **5 Fire-fighting measures**

- Extinguishing media
- Suitable extinguishing agents:

Alcohol resistant foam

Carbon dioxide

Gaseous extinguishing agents

Water fog / haze

Water spray

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.

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.

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.

Environmental precautions

(Cont'd. on page 4)

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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

# · 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.
- · Specific end use(s) No relevant information available.

# 8 Exposure controls/personal protection

# Control parameters

Components with limit values that require monitoring at the workplace:			
67-63-0 Propa	67-63-0 Propan-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		
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  (Cont'd, on page 5)		

(Cont'd. on page 5)

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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

# Ingredients with biological limit values:

# 67-63-0 Propan-2-ol

BEI (USA) 40 mg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: Acetone (background, nonspecific)

# Exposure controls

#### General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Avoid breathing mist, vapors, or spray.

· Engineering controls: Provide adequate ventilation.

#### Breathing equipment:

Not required under normal conditions of use.

In case of inadequate ventilation wear respiratory protection.

NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

Protection of hands:



Protective gloves

#### **Material of gloves**

Nitrile rubber, NBR

Butyl rubber, BR

Neoprene gloves

Natural rubber, NR

Sensibilization by the components in the glove materials is possible.

- Not suitable are gloves made of the following materials: PVA gloves
- · Eve protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · **Body protection:** Protective work clothing
- Limitation and supervision of exposure into the environment

No relevant information available.

# 9 Physical and chemical properties

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	(Cont'd. of page	
Information on basic physical and chemical properties		
Appearance:		
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.	
Danger of explosion:	Product is not explosive. However, formation of explosive a 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.	
Solubility in / Miscibility with		
Water at 20 °C (68 °F):	1 g/l	
Partition coefficient (n-octanol/water	er): 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:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Reacts violently with oxidizing agents.

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

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# **Safety Data Sheet**

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

Reacts with strong acids.

· Conditions to avoid

Keep ignition sources away - Do not smoke.

Excessive heat.

Incompatible materials

Oxidizing agents.

Strong acids

· 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:			
67-63-0 P	67-63-0 Propan-2-ol		
Oral	LD50	5045 mg/kg (rat)	
Dermal	LD50	12800 mg/kg (rabbit)	
Inhalative	LC50/4h	30 mg/l (rat)	

- · Primary irritant effect:
- · On the skin:

Causes mild skin irritation.

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

- · 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	3	
77-09-8 phenolphthalein	2B	
· NTP (National Toxicology Program):		
77-09-8 phenolphthalein		
OSHA-Ca (Occupational Safety & Health Administration):		
Substance is not listed.		

#### Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

· Acute effects (acute toxicity, irritation and corrosivity):

Causes serious eye irritation.

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.

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- · 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

- · 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:

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.

# 14 Transport information

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



· Class 3

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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 Danger code (Kemler): 33 EMS Number: F-E,S-D  Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.  Transport/Additional information:  DOT Quantity limitations On passenger aircraft/rail: 5 L		(Cont'd. of page 8
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<ul> <li>Label 3</li> <li>Packing group</li> <li>DOT, ADR/RID/ADN, IMDG, IATA II</li> <li>Environmental hazards Not applicable.</li> <li>Special precautions for user Warning: Flammable liquids</li> <li>Danger code (Kemler): 33</li> <li>EMS Number: F-E,S-D</li> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.</li> <li>Transport/Additional information:</li> <li>DOT</li> <li>Quantity limitations On passenger aircraft/rail: 5 L</li> </ul>	· IMDG, IATA	
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<ul> <li>EMS Number: F-E,S-D</li> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.</li> <li>Transport/Additional information:</li> <li>DOT</li> <li>Quantity limitations</li> <li>F-E,S-D</li> <li>Not applicable.</li> </ul>	Special precautions for user	Warning: Flammable liquids
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MARPOL73/78 and the IBC Code  Not applicable.  Transport/Additional information:  DOT  Quantity limitations  On passenger aircraft/rail: 5 L	· EMS Number:	F-E,S-D
· Transport/Additional information:  · DOT · Quantity limitations  On passenger aircraft/rail: 5 L		
• DOT • Quantity limitations On passenger aircraft/rail: 5 L	MARPOL73/78 and the IBC Code	Not applicable.
• Quantity limitations On passenger aircraft/rail: 5 L	· Transport/Additional information:	
	· DOT	
On Cargo and an only. Ou E	· Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L

# 15 Regulatory information

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

Substance is not listed.

· Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is listed.

· TSCA (Toxic Substances Control Act)

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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:

Substance is not listed.

· Chemicals known to cause developmental toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· EPA (Environmental Protection Agency):

Substance is not listed.

IARC (International Agency for Research on Cancer):

All ingredients listed on DSL or NDSL.

· Canadian Domestic Substances List (DSL):

Substance is not listed.

#### 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

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

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Trade name: Test Solution 51, Gallon

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