1. IDENTIFICATION

Product Name: HALYARD* PYTEST* Collection Fluid

Product Number: 60445, 60446

Date Prepared: 3/25/15

Manufacturer: Halyard Health Inc.
5405 Windward Parkway
Alpharetta, Georgia 30004

Telephone:
MEDICAL EMERGENCY: Call 911 or your local Emergency Room or Poison Control Services
TRANSPORTATION EMERGENCY: Chemtrec 1-800-424-9300 or 1-703-527-3887 (collect calls accepted)
INFORMATION: 1-844-HALYARD

Product Use: Medical diagnostic accessory.

2. HAZARDS IDENTIFICATION

GHS Classification:
Flammable Liquid Category 2
Acute Toxicity Category 3 (Oral, Dermal, Inhalation)
Skin Corrosion Category 1B
Eye Damage Category 1
Specific Target Organ Toxicity - Single Exposure Category 1

GHS Labeling:

DANGER
H225 Highly flammable liquid and vapor.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H331 Toxic if inhaled.
H370 Causes damage to optic nerve and central nervous system.

Prevention
P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical, ventilating and lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe mist, vapors or spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing, eye protection and face protection.

Response
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P303 Rinse mouth.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P303 Wash contaminated clothing before reuse.
P310 Immediately call a POISON CENTER or doctor.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 Immediately call a POISON CENTER or doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.
P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor.
P370 + P378 In case of fire: Use dry chemical, carbon dioxide, alcohol-resistant foam or water fog to extinguish.

Storage & Disposal
P403 + P235 Store in a well-ventilated place. Keep cool. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents and container in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No./EINECS-No.</th>
<th>%</th>
<th>GHS Classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1 / 200-659-6</td>
<td>60%</td>
<td>Flam Liq 2 H225 Acute Tox 3 (H301, H311, H331 STOT SE 1 H370</td>
</tr>
<tr>
<td>Benzethonium hydroxide</td>
<td>26248-39-5 / 247-537-9</td>
<td>39%</td>
<td>Acute Tox 4 H302 Skin Corr 1B H314 Eye Dam 1 H318</td>
</tr>
<tr>
<td>Thymolphthalein Indicator</td>
<td>125-20-2 / 204-729-7</td>
<td>&lt;1%</td>
<td>Not Hazardous</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, have qualified person administer oxygen. Obtain immediate medical attention.
Skin contact: Wash off immediately with plenty of water for at least 15 minutes. Remove all contaminated clothing. Obtain immediate medical attention.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 30 minutes. Obtain immediate medical attention.

Ingestion: If victim is conscious, rinse mouth with a small amount of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a physician or Poison Control Centre immediately.

Most Important symptoms and effects, both acute and delayed: Corrosive. May be fatal or cause blindness if swallowed. Causes eye, skin and mucous membrane burns. May cause nausea, vomiting, diarrhea, dizziness, drowsiness and other symptoms of central nervous system depression. May be harmful if absorbed through the skin. Prolonged or repeated overexposure may cause effects on vision, liver and kidneys.

Indication of any immediate medical attention and special treatment needed: Immediate medical attention is required for all routes of entry.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) Extinguishing Media: Dry chemical, carbon dioxide, alcohol-resistant foam or water fog.

Specific Hazards Arising from the Chemical: Flammable liquid and vapor. Vapors are heavier than air and may flow along surfaces to remote ignition sources and flash back. Vapours may form explosive mixtures with air.

Hazardous Combustion Products: Carbon and nitrogen oxides.


6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Remove all sources of ignition. Ventilate the area. Wear appropriate protective clothing and equipment.

Environmental Precautions: Report releases as required by local and federal regulations.

Methods and Materials for Containment and Cleaning Up: Contain and collect with inert absorbent material and place in a suitable container for disposal. Comply with all federal, state and local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapors or mists. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep away from heat, sparks, flames, hot surfaces and all other sources of ignition. Keep container tightly closed.
Conditions for Safe Storage, including any Incompatibilities: Store in a cool, dry, well ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Exposure limit(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>200 ppm PEL-TWA</td>
</tr>
<tr>
<td></td>
<td>200 ppm TLV-TWA, 250 ppm TLV-STEEL skin</td>
</tr>
<tr>
<td>Benzethonium hydroxide</td>
<td>None established</td>
</tr>
<tr>
<td>Thymolphthalein Indicator</td>
<td>None established</td>
</tr>
</tbody>
</table>

Appropriate Engineering Controls: Ensure adequate ventilation to maintain airborne concentrations below applicable occupational exposure limits.

Individual Protection Measures, such as Personal Protective Equipment:

Respiratory Protection: No personal respiratory protective equipment normally required. If the exposure limit is exceeded or for symptoms of overexposure, wear an appropriate NIOSH (or local authority) certified respirator.

Protective Gloves: Wear chemical resistant gloves.

Eye Protection: Safety glasses or goggles recommended.

Other Protective Clothing or Equipment: Wear lab coat or other protective clothing as required to avoid skin contact and contamination of personal clothing. An eye wash facility should be available in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor</td>
<td>Light blue liquid with an alcohol odor.</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>1.41 ppm (methanol)</td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>148.1°F (64.5°C)</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative Density (water=1)</td>
<td>0.873</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>97 mmHg@20°C(Methanol)</td>
</tr>
<tr>
<td>Vapor density (air=1)</td>
<td>1.1</td>
</tr>
<tr>
<td>Solubility</td>
<td>Completely soluble in water</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl acetate=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Volatile Organic Carbon Compounds (VOC) (g/L)</td>
<td>533</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>-----</td>
</tr>
<tr>
<td>Flashpoint:</td>
<td>52°F (11°C)</td>
</tr>
<tr>
<td>Flammable Limits in Air % by Volume:</td>
<td>LEL 6.7% (Methanol)</td>
</tr>
<tr>
<td></td>
<td>UEL 36.5% (Methanol)</td>
</tr>
<tr>
<td>Autoignition temperature:</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Reactivity:** Not reactive.

**Chemical Stability:** Stable at ambient temperature and pressure.

**Possibility of Hazardous Reactions:** None currently known.

**Conditions to Avoid:** Keep away from heat, sparks, flames, hot surfaces and all other sources of ignition.

**Incompatible Materials:** Strong oxidizing agents, acid, bases, reducing agents and alkali metals.

**Hazardous Decomposition Products:** Carbon and nitrogen oxides.

### 11. TOXICOLOGICAL INFORMATION

**Symptoms/Effects of Overexposure:**

**Inhalation:** Inhalation may cause respiratory irritation, coughing, shortness of breath, nausea, dizziness, loss of coordination, drowsiness, loss of consciousness and other symptoms of central nervous system depression.

**Skin contact:** Causes burns. May be harmful if absorbed through the skin.

**Eye contact:** Liquid causes severe inflammation of conjunctiva and may cause severe damage of the cornea.

**Ingestion:** May be fatal or cause blindness if swallowed. May cause severe mucous membrane and gastrointestinal irritation and burns. May cause nausea, vomiting, diarrhea, dizziness, drowsiness and other symptoms of central nervous system depression.

**Chronic toxicity:** Prolonged or repeated overexposure may cause effects on vision, liver and kidneys.

**Carcinogenicity Data:** None of the components of this product is listed as a carcinogen by IARC, NTP, US OSHA or the EU CLP Annex VI.

**Reproductive Toxicity:** Methanol has been reported to cause adverse reproductive effects in laboratory animals.
Numerical Measures of Toxicity:
Acute Toxicity Estimate: Oral 141.6 mg/kg, Dermal 500 mg/kg, Inhalation 5 mg/kg/4 hr
Methanol: LD50 oral rat 5628 mg/kg; LD50 skin rabbit 15,800 mg/kg; LC50 inhalation rat 64,000 ppm/4 hr.
Benzethonium hydroxide: Oral rat LD50 368 mg/kg
Thymolphthalein Indicator: No toxicity data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Methanol: 96 hr LC50 Lepomis macrochirus 15400 mg/L, 96 hr EC50 daphnia magna 18260 mg/L, 96 hr EC50 Pseudokirchnerella subcapitata 22000 mg/L
Benzethonium hydroxide: No data available
Thymolphthalein Indicator: No data available
Persistence and Degradability: Methanol is readily biodegradable.
Bioaccumulative Potential: Methanol has an estimated BCF of <10.
Mobility in Soil: Methanol is highly mobil in soil.
Other Adverse Effects: None currently known.

13. DISPOSAL CONSIDERATIONS
Contains a chemical that may be regulated as a hazardous waste (see Section 2) and releases may be reportable. Certain state and local Emergency Response Commissions may also require reporting. Please report releases as appropriate. Dispose in accordance with all state, local and federal regulations.

14. TRANSPORT INFORMATION

US DOT Shipping Description: UN2924, Flammable liquid, corrosive, n.o.s. (methanol, benzethonium hydroxide), 3 (8), II
Note: This product is shipped under the Small Quantity Exceptions at 49CFR173.4.

IATA Shipping Description (Air): UN2924, Flammable liquid, corrosive, n.o.s. (methanol, benzethonium hydroxide), 3 (8), II
Note: This product is shipped under the provisions for Dangerous Goods in Excepted Quantities (IATA 2.7).

IMDG Shipping Description (Vessel): UN2924, Flammable liquid, corrosive, n.o.s. (methanol, benzethonium hydroxide), 3 (8), II

15. REGULATORY INFORMATION

US Regulations
EPA Toxic Substances Control Act (TSCA): All of the components of this product are listed on the TSCA Inventory or exempted from TSCA.
SARA 302 Listed Chemicals: None.
SAFETY DATA SHEET
HALYARD* PYTEST* Collection Fluid

SARA 311/312 Hazard Categories: Fire Hazard, Acute Health, Chronic Health

SARA 313 This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under the SARA Section 313 (40 CFR 372): Methanol 60%

California Proposition 65: This product contains the following chemical known to the State of California to cause cancer and reproductive toxicity: Methanol (developmental) 60%

International Regulations

Canadian CEPA: All of the components are either listed on or exempted from the Domestic Substances List (DSL).

Canadian WHMIS Classification: Medical devices are not subject to the Hazardous Products Act (WHMIS).

16. OTHER INFORMATION

Date Prepared: 3/25/15

GHS Classification Hazard Statements seen in Section 3 for Reference:
Flam Liq 2 = Flammable Liquid Category 2
Acute Tox 3 = Acute Toxicity Category 3
Acute Tox 4 = Acute Toxicity Category 4
Skin Corr 1B = Skin Corrosion Category 1B
Eye Dam 1 = Eye Damage Category 1
STOT SE 1 = Specific Target Organ Toxicity Single Exposure Category 1

H225 Highly flammable liquid and vapor
H301 Toxic if swallowed
H302 Harmful if swallowed
H311 Toxic in contact with skin
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H331 Toxic if inhaled
H370 Causes damage to organs

HMIS Rating: Health 3 Fire 3 Physical Hazard 0

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