Section 1. Chemical Product and Company Identification

Product No. R246303
Trade name SET 3/ DMSO ACID FAST STAIN KIT
Manufacturer REMEL Inc.
12076 Santa Fe Drive
P.O. Box 14428
Lenexa
Kansas KS 66215
U.S.A.
Tel: (+1) 913 888 0939
Fax: (+1) 913 895 4128
Emergency: Chemtrec USA 800-424-9300

Supplier OXOID LIMITED
Wade Road
Basingstoke
Hants
RG24 8PW
Tel: + 44 1256 841144

Section 2. Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Concentration</th>
<th>Classification</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>REAGENT A - DMSO Stain</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimethyl Sulphoxide</td>
<td>67-68-5</td>
<td>15.00 % v/v</td>
<td>Xi - Irritant.</td>
<td>R36/37/38- Irritating to eyes, respiratory system and skin.</td>
</tr>
<tr>
<td></td>
<td>200-664-3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>15.00 % v/v</td>
<td>F - Highly flammable.</td>
<td>R11- Highly flammable.</td>
</tr>
<tr>
<td></td>
<td>200-578-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol (Glycerin)</td>
<td>56-81-5</td>
<td>15.00 % v/v</td>
<td>Xi - Irritant.</td>
<td>R36/38- Irritating to eyes and skin.</td>
</tr>
<tr>
<td></td>
<td>200-289-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phenol</td>
<td>108-95-2</td>
<td>7.00 % v/v</td>
<td>T - Toxic.</td>
<td>R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.</td>
</tr>
<tr>
<td></td>
<td>203-632-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C - Corrosive.</td>
<td>R34- Causes burns.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Xn - Harmful.</td>
<td>R48/20/21/22- Harmful: danger of serious damage to health by prolonged</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>exposure through inhalation, in contact with skin and if swallowed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Muta. Cat. 3</td>
<td>R68- Possible risk of irreversible effects.</td>
</tr>
<tr>
<td>Pararosaniline Chloride</td>
<td>632-99-5</td>
<td>2.00 % w/v</td>
<td>Xn - Harmful.</td>
<td>R36/37/38- Irritating to eyes, respiratory system and skin.</td>
</tr>
<tr>
<td></td>
<td>211-189-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REAGENT B - Decolorizer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulphuric Acid</td>
<td>7664-93-9</td>
<td>10.00% v/v</td>
<td>C - Corrosive.</td>
<td>R35- Causes severe burns.</td>
</tr>
<tr>
<td></td>
<td>231-639-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REAGENT C - Counterstain</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol (Glycerin)</td>
<td>56-81-5</td>
<td>16.70 % v/v</td>
<td>Xi - Irritant.</td>
<td>R36/38- Irritating to eyes and skin.</td>
</tr>
<tr>
<td></td>
<td>200-289-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetic Acid (Glacial)</td>
<td>64-19-7</td>
<td>10.00 % v/v</td>
<td>Flammable.</td>
<td>R10- Flammable.</td>
</tr>
<tr>
<td></td>
<td>200-580-7</td>
<td></td>
<td>C - Corrosive.</td>
<td>R35- Causes severe burns.</td>
</tr>
</tbody>
</table>

CM Version - 1
Section 3. Hazards Identification

**Most Important Hazards**

REAGENT A - DMSO Stain  
Harmful by inhalation, in contact with skin and if swallowed.  
Causes burns.  
Limited evidence of a carcinogenic effect.  
Possible risks of irreversible effects.  
REAGENT B - DECOLORIZER  
Irritating to eyes and skin.  
REAGENT C - COUNTERSTAIN  
Irritating to eyes and skin.

**Human health hazards**

- **Eyes**  
  Corrosive to eyes.

- **Skin**  
  Corrosive to skin on contact.

- **Ingestion**  
  May be fatal if swallowed. May cause burns to mouth, throat and stomach.

- **Inhalation**  
  Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath.  
  Overexposure by inhalation may cause respiratory irritation.

Section 4. First Aid Measures

- **First Aid - Eyes**  
  Check for and remove any contact lenses. In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention.

- **First Aid - Skin**  
  Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap. Obtain medical attention if soreness or redness persists.

- **First Aid - Ingestion**  
  Have victim drink 1-3 glasses of water to dilute stomach contents.  
  Avoid hand to mouth contact. If ingested, seek medical advice.

- **First Aid - Inhalation**  
  If inhaled, remove to fresh air.

Section 5. Fire Fighting Measures

**Extinguishing Media - Suitable**

SMALL FIRE: Use DRY chemical powder.  
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Section 6. Accidental Release Measures

**Personal Precautions**  
Safety glasses or chemical goggles to EN166, 167 and 168. Nitrile gloves.

**Spill**  
Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Section 7. Handling and Storage

**Handling**  
Avoid contact with eyes, skin and clothing.

**Storage**  
Keep container tightly closed. Keep container in a cool, well-ventilated area.
SAFETY DATA SHEET
SET 3/ DMSO ACID FAST STAIN KIT

Date of issue - 02/04/2007.

Section 8. Exposure Controls, Personal Protection

**Occupational Exposure Limits (Preparation) - Europe**

- **Ethanol**: UK EH40: WEL 1000 ppm (1920 mg/m³) 15 min TWA.
- **Glycercol Mist**: UK EH40: WEL 10 mg/m³ 8 hr TWA.
- **Phenol**: UK EH40: WEL 2 ppm 8 hour TWA.

**Protective Measures - Hands**: Nitrile gloves.

**Protective Measures - Eyes**: Safety glasses with side shields.

Section 9. Physical and Chemical Properties

**Physical state**: Liquid.

**Colour**
- **REAGENT A - DMSO Stain**: Purple.
- **REAGENT B - DECOLORIZER**: Colourless.
- **REAGENT C - COUNTERSTAIN**: Green.

**pH**
- **REAGENT A - DMSO Stain**: 6.75
- **REAGENT B - DECOLORIZER**: < 2.5
- **REAGENT C - COUNTERSTAIN**: < 3.5

**Flash Point (Pensky-Martens.) °C**
- **REAGENT A - DMSO STAIN**: Closed cup: 35°C (95°F).

**Flammability**: REAGENT A - DMSO STAIN: Flammable

Section 10. Stability and Reactivity

**Stability**: The product is stable. Do not mix components from different lots. Do not use after stated expiry date.

Section 11. Toxicological Information

**Acute toxicity**: Harmful by inhalation, in contact with skin and if swallowed.

**Eye irritation**: Hazardous in case of eye contact (corrosive).

**Skin irritation**: Hazardous in case of skin contact (corrosive).

**Chronic toxicity / Carcinogenic effects**: EU Category 3: Cause concern owing to possible carcinogenic effects.

**Mutagenic Effects**: Classified 3 by European Union [Phenol].

Section 12. Ecological Information

**Ecotoxicity**: No relevant studies identified.

Section 13. Disposal Considerations

**Disposal considerations**: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information

**UN : UN number**: 2920

**UN : Proper shipping name**: Corrosive liquid, flammable, n.o.s. (Sulphuric acid. Ethanol)

**UN : Class**: 8, 3

**UN : Packing group**: II
Section 15. Regulatory Information

**Label Requirements**

Corrosive

**Risk Phrases**

REAGENT A - DMSO Stain
- R10- Flammable.
- R40- Limited evidence of a carcinogenic effect.
- R68- Possible risks of irreversible effects.
- R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
- R34- Causes burns.

REAGENT B - DECOLORIZER & REAGENT C - COUNTERSTAIN
- R36/38- Irritating to eyes and skin.

**Safety Phrases**

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section 16. Other Information

**MSDS first issued**

02/04/2007

**USES**

For in vitro diagnostic use only.

**Notes**

Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.
Labelling of packaging containing less than 125 ml will differ according to the EU preparations Directive 1999/45/EC.