SAFETY DATA SHEET (SDS)

Revision Date: 10/16/2017
Version 1.4

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name: Oil Red O Stock Stain, Isopropanol
   Part Number: 1277
   CAS-No.: Not applicable
   SDS Number: 3640

1.2 Recommended Use: Laboratory Chemicals

1.3 Company: Newcomer Supply
   2505 Parview Road
   Middleton, WI 53562 USA
   Telephone: 1-800-383-7799
   Fax: 1-608-831-0866
   Website: www.newcomersupply.com
   Email: newly@newcomersupply.com

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture
   GHS Classification, (in accordance with 29 CFR1910.1200)
   - Flammable liquid, Category 2
   - Serious Eye Damage/Eye irritation, Category 2A
   - Specific Target Organ Toxicity – Single exposure, Category 3

2.2 GHS Label elements
   Signal Word: DANGER

   Pictogram:

   Hazard Statement(s):
   - Highly flammable liquid and vapour
   - Causes serious eye irritation
   - May cause respiratory irritation
   - May cause drowsiness or dizziness

   Precautionary Statement(s):
   Prevention:
   - Keep away from heat/sparks/open flames/hot surfaces – No smoking.
   - Keep container tightly closed.
   - Ground/bond container and receiving equipment.
   - Use explosion-proof fume hood/electrical/ventilating/light equipment.
   - Use only non-sparking tools.
   - Take precautionary measures against static discharge.
   - Wear protective gloves/protective clothing/eye protection/face protection.
   - Wash skin thoroughly after handling.
   - Avoid breathing dust/fume/gas/mist/vapours/spray.
   - Use only outdoors or in a well-ventilated area.

   Response:
   - In case of fire use carbon dioxide, dry chemical or alcohol-resistant foam.
   - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
   - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
   - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
   - If eye irritation persists get medical advice/attention.
   - Call a POISON CENTER or doctor/physician if you feel unwell.

24 HOUR EMERGENCY CONTACT
CALL CHEMTREC: 1-800-424-9300
Contact CHEMTREC only in the event of an emergency involving a chemical spill, leak, fire, exposure or other accident.
Storage:
· Store in a well ventilated place. Keep cool.
· Keep container tightly closed.
· Store locked up.

Disposal:
· Dispose of contents/container to an approved waste disposal plant.

2.3 Description of any hazards not otherwise classified
None

2.4 >1% of mixture with unknown acute toxicity
None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Isopropyl Alcohol</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>67-63-0</td>
</tr>
</tbody>
</table>

4.1 Description of necessary measures

Inhalation (breathing)
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell.

Eye Contact
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.

4.2 Most important symptoms and or effects, acute and delayed
The most important symptoms/effects are presented in Section 2 and or Section 11.

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media
Carbon dioxide, dry chemical, water spray, alcohol-resistant foam.

5.2 Specific hazards arising from the substance or mixture
No data available

5.3 Protective equipment and precautions for fire-fighters
Wear a positive-pressure self-contained breathing apparatus if necessary. Wear chemical resistant clothing as recommended by clothing manufacturer.

NFPA Rating

<table>
<thead>
<tr>
<th>Health hazard:</th>
<th>Fire hazard:</th>
<th>Reactivity hazard:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Apply personal protective equipment (see Section 8). Use in a properly ventilated area. Avoid breathing vapors. Avoid skin contact. Avoid eye contact. Wash hands after use. In case of large spill, remove personnel to a safe area. Keep product away from heat, flame, ignition sources, and reactive materials. Avoid accumulation of vapor to form explosive concentration. Pay particular attention to low areas where vapor accumulates more easily.

6.2 **Methods and material for containment and cleaning up**
Apply personal protective equipment (see Section 8). Contain spill. Prevent further leakage if possible and safe to do so. Ensure proper ventilation. For small amounts, wipe or absorb spill using inert material and dispose of according to local regulations. For large amounts, evacuate area and limit access. Prevent entry of material into sewage drains and confined areas. Dispose of any contaminated materials according to local regulations. Eliminate sources of ignition.

7. **HANDLING AND STORAGE**

7.1 **Precautions for safe handling**

7.2 **Conditions for safe storage, including any incompatibilities**
Refer to Section 2.2 for proper storage temperature. Store the tightly closed container in a cool, dry, well-ventilated area.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 **Control Parameters**
Components with limit values that require monitoring at the workplace

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Regulatory</th>
<th>Value</th>
<th>Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>OSHA PEL</td>
<td>TWA</td>
<td>400 ppm (980 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>TWA</td>
<td>400 ppm (983 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>STEL</td>
<td>500 ppm (1,230 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH REL</td>
<td>TWA</td>
<td>400 ppm (980 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH REL</td>
<td>STEL</td>
<td>500 ppm (1,225 mg/m³)</td>
</tr>
</tbody>
</table>

8.2 **Exposure Controls**
**Appropriate engineering controls**
Use in a properly ventilated area. Remove/wash before reuse contaminated clothing. Wash hands upon exiting work premises. Use product in an appropriately designated fume hood. Take measures to keep concentrations below acceptable limits.

8.3 **Personal Protective Equipment**
**Eye/Face protection**
Wear chemical safety goggles and/or a full face shield if splashing is possible. Keep eye wash fountain nearby.

**Skin Protection**
Wear chemical-resistant gloves. Gloves should be resistant to components of product. Refer to glove manufacturer for appropriate type and glove thickness.

**Body Protection**
No data available

**Respiratory Protection**
Respirators should only be used if the employer has implemented a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing, and medical exams, as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134).

Where the potential exists for exposure over 200 ppm: use a NIOSH approved full facepiece respirator with an organic vapor cartridge. Increased protection is obtained from full facepiece powered-air purifying respirators. Leave the area immediately if (1) while wearing a filter or cartridge respirator you can smell, taste, or otherwise detect isopropyl alcohol, (2) while wearing particulate filters abnormal resistance to breathing is experienced, or (3) eye irritation occurs while wearing a full facepiece respirator. Check to make sure the respirator-to-face seal is still good. If it is, replace the filter or cartridge. If the seal is no longer good, you may need a new respirator.

Where the potential for high exposure exists, use a NIOSH approved supplied-air respirator with a full facepiece operated in a pressure-demand or other positive-pressure mode. For increased protection use in combination with an auxiliary self-contained breathing apparatus or an emergency escape air cylinder.

Exposure to 2,000 ppm is immediately dangerous to life and health. If the possibility of exposure above 2,000 ppm exists, use a NIOSH approved self-contained breathing apparatus with a full facepiece operated in a pressure-demand or other positive-pressure mode equipped with an emergency escape air cylinder.

In case of emergency, entry into or escape from unknown concentrations select the highest level approved respiratory protection available.

**Other Information**

None

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Colorless liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcoholic odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>-88°C (-126.4°F)</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>82°C (179.6°F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>12°C (53.6°F) (TTC)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>1.7</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Liquid is flammable</td>
</tr>
<tr>
<td>Upper flammability or explosive limits</td>
<td>12.7%</td>
</tr>
<tr>
<td>Lower flammability or explosive limits</td>
<td>2%</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>33 mm Hg at 20°C</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.785</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Miscible with water</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

No data available
10.2 Chemical stability
Stable in a closed container within label-specified storage temperature and expiration date.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, sparks, open flame, and ignition sources.

10.5 Incompatible materials
Oxidizing agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine and fluorine); strong acids (such as hydrochloric, sulfuric and nitric); acid anhydrides; alkali metals (such as lithium, sodium and potassium); alkaline earth metals (such as beryllium, magnesium and calcium); ethylene oxide; phosgene; crotonaldehyde; and isocyanates.

10.6 Hazardous decomposition products
Carbon dioxide and carbon monoxide may be released if product is heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation exposure
Inhaling isopropyl alcohol can irritate the nose, throat and lungs causing coughing and/or shortness of breath at 400 to 800 ppm.

Oral exposure
Repeated high exposure can cause headache, dizziness, confusion, loss of coordination, unconsciousness and even death. The probable lethal oral dose has been reported to be 190 grams.

Dermal exposure
Contact can irritate the skin.

Skin corrosion/irritation
Prolonged or repeated exposure can cause drying and cracking of the skin with peeling, redness and itching.

Serious eye damage/irritation
200, 400, or 800 ppm reported mild to moderate irritation of the eyes at the two higher concentrations.

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Reproductive toxicity
There is limited evidence that isopropyl alcohol may damage the developing fetus in animals.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Isopropyl alcohol may affect the liver and kidneys.

Aspiration hazard
No data available

Acute toxicity

No data available
12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal methods
Contents
Dispose of contents in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of packaging in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

14.1 DOT (US)
UN-Number 1219
Proper shipping name Isopropanol
Hazard class 3
Packing group II
Environmental hazards No data available

15. REGULATORY INFORMATION

15.1 No data available

16. OTHER INFORMATION

Preparation Information
Newcomer Supply Inc.
800-383-7799
www.newcomersupply.com