Safety Data Sheet
Quick III Fixative
Revision Date: 01/08/19

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier
Trade name: Quick III Fixative Sol-1 Fixative
Product code(s): 5317-16, 5328-G, 5303, 5316

1.2 Relevant identified uses
Laboratory Reagent

Supplier:
Astral Diagnostics Inc. / Kacey 828.685.3569
800-441-0366 Technical Service
Monday-Friday: 8:00 -5:00 PM

Synonym:
None.

Material uses:
Laboratory Reagent.

Validation date:
12/11/2013

In case of emergency:
800-424-9300 CHEMTREC (USA)
24 Hours/Day: 7 Days/Week

2. HAZARDS IDENTIFICATION

Emergency Overview:

GHS Label Elements: Pictogram

Signal Word: Danger!

Hazard statement(s):
H225: Highly flammable liquid vapour
H301+H311+H331: Toxic if swallowed, in contact with skin or if inhaled
H370: Causes damage to organs

Precautionary statement(s):
P210: Keep away from heat/sparks/open flames. No smoking
P233: Keep container tightly closed
P242: Use only non-spark tools
P264: Wash skin thoroughly after handling
NFPA Rating | HMIS Classification
-------------|---------------------
Health hazard: 2 | Health hazard: 2
Fire: 3 | Flammability: 3
Reactivity Hazard: 0 | Physical hazards: 0

Potential Health Effects:
- Inhalation – May cause respiratory tract irritation.
- Skin - May cause skin irritation.
- Eyes – May cause eye irritation.
- Ingestion – Potentially toxic if swallowed in large quantities.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS number</th>
<th>% by volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>&lt;100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media
- Unsuitable extinguishing media: Do not use a heavy water stream

5.2 Special hazards arising from the substance or mixture
No additional information available

5.3 Advice for firefighters
Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water form entering environment. Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
- Protective equipment: Gloves. Safety glasses. Combined gas/dust mask with filter type B/P3.
- Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
- Protective equipment: Equip cleanup crew with proper protection.
- Emergency procedures: Ventilate area.
6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection

7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors, spray. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.
Hygiene measures: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Comply with applicable regulations.
Storage conditions: Keep container closed when not in use. Protect from sunlight. Store in a well-ventilated place.
Incompatible materials: Sources of ignition. Direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Consult local authorities for acceptable exposure limits.

<table>
<thead>
<tr>
<th>Component</th>
<th>Source</th>
<th>Type</th>
<th>Value</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>ACGIH</td>
<td>TWA</td>
<td>200 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>STEL</td>
<td>250 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NIOSH</td>
<td>TWA</td>
<td>260 mg/m3, 200 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA</td>
<td>TWA</td>
<td>260 mg/m3, 200 ppm</td>
<td></td>
</tr>
</tbody>
</table>

Hand protection: Wear protective gloves.
Eye protection: Chemical goggles or face shield.
Skin and body protection: Wear suitable protective clothing.
Respiratory protection: Wear appropriate mask. Gas mask with filter type B.
Other information: Do not eat, drink or smoke during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.
Flash Point: Closed cup: 9.7°C (49.5°F)
pH: NA
Color: light blue
Odor: Pungent
Boiling/condensation point: NA
Melting/freezing point: -98°C  
Relative density: 0.791 g/ml at 25°C  
Vapor pressure: 97.7 mmHg at 20.0°C  
Vapor density: 1.11  
Odor threshold: NA  
Evaporation rate: NA  
VOC: NA  
Solubility: Soluble in the following materials: water  
Upper/Lower flammability: Upper- 36%, Lower- 6%  

10. STABILITY AND REACTIVITY  

10.1. Reactivity  
No further relevant information available  

10.2. Chemical stability  
Stable under recommended conditions.  

10.3. Possibility of hazardous reactions  
Vapours may form explosive mixture with air  

10.4. Conditions to avoid  
Heat, flames and sparks  

10.5. Incompatible materials  
Acid chlorides, acid anhydrides, oxidizing agents, alkali metals, reducing agents, acids.  

10.6. Hazardous decomposition products  
Carbon dioxide.  

11. TOXICOLOGICAL INFORMATION  

Methanol  
LD50 oral rat 1,187-2,769 mg/kg  
LC50 inhalation rat (mg/l) 128.2 mg/l (4hr)  
LC50 inhalation rat (mg/l) 87.6 mg/l (6hr)  
LD50 Dermal rabbit 17,100 mg/kg  

Skin corrosion/irritation: Not classified  
Serious eye damage/irritation: No irritating effect  
Respiratory or skin sensitization: Not classified  
Germ cell mutagenicity: Not classified  
Carcinogenicity: Not Classified  

12. ECOLOGICAL INFORMATION  

Toxicity:  
Mortality LC50- Lepomis macrochirus: 15,400 mg/l (96h)  
NOEC- Oryzias latipes : 7,900 mg/l (200h)  

Persistence and degradability:  
Biodegradability: 72% (aerobic-exposure time 5 d)  

Bioaccumulative potential:  
Biaccumlation: Cyprinus carpio- 72d at 20°C, 5 mg/l  

Mobility in soil:  
Will not adsorb on soil  

PBT and vPvB assessment:  
no data available  

Other adverse effects:  
Stability in water at 19°C 83-91%- 72hr  

13. DISPOSAL CONSIDERATIONS
The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

**DOT (US)**
- UN number: 1230
- Class: 3
- Packing Group: II
- Proper Shipping name: Methanol
- Reportable Quantity: 5000lb

**IMDG/IATA**
- UN number: 1230
- Class: 3 (6.1)
- Packing Group: II
- Proper Shipping name: Methanol

15. REGULATORY INFORMATION

15.1 US Federal regulations
- Methanol
- RQ 5000 lb
- SARA Section 311/312 Hazardous Classes: Immediate health hazard, fire hazard

15.2 International regulations
- Methanol
- WHMIS Classification: Class B Division 2-Flammable Liquid, Class D Division 2 Subdivision A- Very toxic material causing other toxic effects, Class D Division 2 subdivision B- Toxic material causing other toxic effects

15.3 California Proposition 65

**WARNING:** This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

16. OTHER INFORMATION

National Fire Protection Association (U.S.A.)

**Notice to reader**
This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labeling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we
assume no liability resulting from its use. In no event shall Astral Diagnostics, Inc / Kacey be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.