SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : STOP SOLUTION
Product code : 1100

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation : Laboratory use. Use only as directed in kit instructions following recognized good laboratory practices.

1.3. Details of the supplier of the safety data sheet

Supplier: Salimetrics, LLC
101 Innovation Boulevard, Suite 302
State College, PA 16803 USA
T 814-234-7748
F 814-234-1608
www.salimetrics.com

1.4. Emergency telephone number

Emergency number : 814-234-7748 (8 AM to 5:30 PM, PST; Monday - Friday)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US) : Met. Corr. 1 H290

2.2. Label elements

GHS-US labelling
Hazard pictograms (GHS-US) : 

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H290 – May be corrosive to metal
Precautionary statements (GHS-US) : P234 – Keep only in original container.
P390 – Absorb spillage to prevent material damage.
P406 – Store in corrosive resistant container with a resistant inner liner.

2.3. Other hazards

No additional hazards have been identified.

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanesulfonic acid</td>
<td>(CAS No.) 75-75-2</td>
<td>5-10</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measure

4.1. Description of 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
If INHALED, if you feel unwell, seek medical advice.

First-aid measures after skin contact
If ON SKIN (or clothing) Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.

First-aid measures after eye contact
If IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get medical attention. Continue to rinse.

First-aid measures after ingestion
If SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injury
May be slightly irritating to skin and eyes.

Symptoms/injuries after inhalation
May cause respiratory irritation

Symptoms/injuries after skin contact
May cause skin irritation

Symptoms/injuries after eye contact
May cause slight irritation

Symptoms/injuries after ingestion
May cause gastrointestinal irritation.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media

5.2. Special hazards arising from the substance or mixture
Fire hazard
The product is not flammable.

Explosion hazard
Product is not explosive.

Reactivity
No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters
Firefighting instructions
Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting
Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General Measures
No specific emergency measures are required other than good laboratory hygiene and safety practices.

6.1.1. For non-emergency personnel
Protective equipment
Wear Protective equipment as described in Section 8.

Emergency procedures
Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment
Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

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
For containment
Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up
Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections
No additional information available.
SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Use appropriate personal protection equipment (PPE). Keep away from sources of ignition – No smoking. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep the container tightly closed. Store in a dry, cool and well-ventilated place. Avoid elevated temperatures.

Storage temperature: Room temperature

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure Controls

Appropriate engineering controls: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment: Gloves. Protective goggles or safety glasses with side guards should be worn.

Hand protection: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

Eye protection: Chemical Goggles or Safety glasses.

Skin and body protection: Lab coat. Wear suitable protective clothing. Wear long sleeves.

Respiratory protection: Where excessive vapor, mist, or dust may result, use NIOSH approved respiratory protection equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Decomposition temperature: No data available

Appearance: Clear colorless liquid

Flammability (solid, gas): Not flammable

Color: Clear.

Vapor pressure: No data available

Odor: None.

Relative vapor density at 20 °C: No data available

Odor threshold: No data available

Relative density: No data available

pH: ≤ 1


Relative evaporation rate (butylacetate=1): No data available

Log Pow: No data available

Melting point: No data available

Log Kow: No data available

Freezing point: No data available

Viscosity, kinematic: No data available

Boiling point: No data available

Viscosity, dynamic: No data available

Flash point: No data available

Explosive properties: Product is not explosive

Auto-ignition temperature: No data available

Oxidising properties: Not an Oxidizer

Explosive limits: No data available

9.2. Other information

No additional information available
SECTION 10: Stability and reactivity

10.1. Reactivity
No dangerous reactions known under normal conditions of use.

10.2. Chemical stability
Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid
Elevated temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Thermal decomposition generates: Carbon oxides (CO, CO2), Sulfur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

<table>
<thead>
<tr>
<th>Methanesulfonic acid (75-75-2)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>380 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>200 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified. pH<=1
Serious eye damage/irritation: Not classified. pH<=1.
Respiratory or skin sensitization: Not classified.
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: Not classified
Symptoms/Injuries after inhalation: May cause respiratory irritation
Symptoms/Injuries after skin contact: May cause skin irritation.
Symptoms/Injuries after eye contact: May cause slight irritation
Symptoms/Injuries after ingestion: May cause gastrointestinal irritation

SECTION 12: Ecological information

12.1. Toxicity
No additional information available

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
No additional information available
## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<table>
<thead>
<tr>
<th>Waste treatment methods</th>
<th>Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste disposal recommendations</td>
<td>Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.</td>
</tr>
</tbody>
</table>

## SECTION 14: Transport information

### 14.1. UN number

<table>
<thead>
<tr>
<th>UN-No.(DOT)</th>
<th>2586</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-NA no.</td>
<td>UN2586</td>
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</tbody>
</table>

### 14.2. UN proper shipping name

<table>
<thead>
<tr>
<th>Proper Shipping Name (DOT)</th>
<th>Alkyl sulfonic acids, liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Transportation (DOT)</td>
<td>8 - Class 8 - Corrosive material 49 CFR 173.136</td>
</tr>
<tr>
<td>Hazard Classes</td>
<td>8 - Corrosive</td>
</tr>
</tbody>
</table>

### DOT Quantity Limitations

- **Passenger aircraft/rail** (49 CFR 173.27): 5 L
- **Cargo Aircraft only** (49 CFR 175.75): 60 L

### DOT Vessel Stowage Location

- B – (i) The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) “on deck only” on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

### 14.3 Additional information

**Other information**: No supplementary information available.

### Transport by sea

No additional information available

### Air transport (IATA)

| Transport document description | UN2586, Alkylsulphonic acids, liquid, 8,III |
| UN-No. | UN2586 |
| Proper Shipping Name (IATA) | Alkylsulphonic acids, liquid |
| Hazard Class | 8 |
| Packing group | III |

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

**STOP SOLUTION**

All chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory
15.2. International regulations
CANADA
No additional information available

15.3. US State regulations
California Proposition 65
This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

Methanesulfonic Acid (75-75-2)

US – New Jersey – Right to Know Hazardous Substance List

SECTION 16: Other information

Indication of changes : Revision 1: Section 14: Transportation.
Revision date : 5-Mar-2015

Other information : Author RGL

NFPA health hazard : 1-Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 0-Materials that will not burn.

NFPA reactivity : 0-Normally stable, even under fire exposure conditions, and are not reactive with water.

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