

### 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](http://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) :



GHS05

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

Name	Product Identifier	%
Methanesulfonic acid	(CAS No.) 75-75-2	5-10

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 1.0

### 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 : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

#### 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

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### 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
		Solubility	: Water: soluble.
pH	: < =1	Log Pow	: No data available
Relative evaporation rate (butylacetate=1)	: No data available	Log Kow	: No data available
Melting point	: No data available	Viscosity, kinematic	: No data available
Freezing point	: No data available	Viscosity, dynamic	: No data available.
Boiling point	: No data available	Explosive properties	: Product is not explosive
Flash point	: No data available	Oxidising properties	: Not an Oxidizer
Auto-ignition temperature	: No data available	Explosive limits	: No data available

#### 9.2. Other information

No additional information available

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### 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

Strong oxidizing agents. Reducing agents. Strong bases.

#### 10.6. Hazardous decomposition products

Thermal decomposition generates: Carbon oxides (CO, CO<sub>2</sub>), Sulfur oxides.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Methanesulfonic acid (75-75-2)	
LD50 oral rat	380 mg/kg
LD50 dermal rabbit	200 mg/kg

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

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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

### SECTION 14: Transport information

In accordance with DOT

Transport document description : UN2586 Alkyl sulfonic acids, liquid, 8, III

#### 14.1. UN number

UN-No.(DOT) : 2586  
DOT-NA no. : UN2586

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Alkyl sulfonic acids, liquid  
Department of Transportation (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136  
Hazard Classes  
Hazard labels (DOT) : 8 - Corrosive



Packing group (DOT) : III - Minor Danger  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L  
DOT Quantity Limitations 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

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### 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.

*Notice to the reader: The information provided on this Safety Data Sheet is accurate to the best of our knowledge, information and belief at the date of its publication. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy of completeness of the information contained herein. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.*