

## Safety Data Sheet

**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking****1.1 Product identifier****Product Name** | 15% MSA**Product Code** | 70492**1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified use(s)** | Semiconductor Processes**1.3 Details of the supplier of the safety data sheet****Manufacturer** | Air Liquide  
2700 Post Oak Blvd.  
Houston, TX 77056  
United States  
www.us.airliquide.com  
sds@airliquide.com**Telephone (Technical)** | 713-896-2896**Telephone (Technical)** | 800-819-1704**1.4 Emergency telephone number****Manufacturer** | 800-424-9300 - CHEMTREC**Manufacturer** | +1 703-527-3887 - Outside United States**Section 2: Hazards Identification****EU/EEC**

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

**2.1 Classification of the substance or mixture****CLP** | Skin Corrosion 1B - H314  
Serious Eye Damage 1 - H318  
**DSD/DPD** | Corrosive (C)  
R34**2.2 Label Elements****CLP****DANGER****Hazard statements** | H314 - Causes severe skin burns and eye damage.  
H318 - Causes serious eye damage

## Precautionary statements

- Prevention** | P260 - Do not breathe mist/vapours/spray.  
P264 - Wash thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response** | P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P321 - Specific treatment, see supplemental first aid information.  
P363 - Wash contaminated clothing before reuse.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor/physician.  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- Storage/Disposal** | P405 - Store locked up.  
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## DSD/DPD



- Risk phrases** | R34 - Causes burns.
- Safety phrases** | S36 - Wear suitable protective clothing.  
S37 - Wear suitable gloves.  
S39 - Wear eye/face protection.  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## 2.3 Other Hazards

- CLP** | According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.
- DSD/DPD** | This product is considered dangerous according to the European Directive 67/548/EEC.

## United States (US)

According to OSHA 29 CFR 1910.1200 HCS

### 2.1 Classification of the substance or mixture

- OSHA HCS 2012** | Acute Toxicity Oral 4 - H302  
Skin Corrosion 1B - H314  
Serious Eye Damage 1 - H318

### 2.2 Label elements

OSHA HCS 2012

## DANGER



- Hazard statements** | Harmful if swallowed - H302  
Causes severe skin burns and eye damage. - H314  
Causes serious eye damage - H318

## Precautionary statements

- Prevention** | Do not breathe mist/vapours/spray. - P260  
Wash thoroughly after handling. - P264  
Do not eat, drink or smoke when using this product. - P270  
Wear protective gloves/protective clothing/eye protection/face protection. - P280

**Response** | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340  
 Immediately call a POISON CENTER or doctor/physician. - P310  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. - P303+P361+P353  
 Specific treatment, see supplemental first aid information. - P321  
 Wash contaminated clothing before reuse. - P363  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell. - P301+P312  
 Rinse mouth. - P330

**Storage/Disposal** | Store locked up. - P405  
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

## 2.3 Other hazards

**OSHA HCS 2012** | Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Canada

According to WHMIS

## 2.1 Classification of the substance or mixture

**WHMIS** | Toxic - D1B  
 Corrosive - E

## 2.2 Label elements

**WHMIS**



| Toxic - D1B  
 Corrosive - E

## 2.3 Other hazards

**WHMIS** | In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
Methanesulfonic acid	CAS:75-75-2 EC Number:200-898-6 EU Index:607-145-00-4	15%	Ingestion/Oral-Rat LD50 • 200 mg/kg Skin-Rabbit LD50 • >1000 mg/kg	EU DSD/DPD: Annex VI, Table 3.2: C; R34 EU CLP: Annex VI, Table 3.1: Skin Corr. 1B, H314 OSHA HCS 2012: Acute Tox. 3 (Oral); Skin Corr. 1B; Eye Dam. 1
Water	CAS:7732-18-5 EC Number:231-791-2	Balance	NDA	EU DSD/DPD: Non-hazardous EU CLP: Non-hazardous OSHA HCS 2012: Non-hazardous

## 3.2 Mixtures

- | Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

- Inhalation**
- | Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.
- Skin**
- | For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Get medical attention immediately.
- Eye**
- | Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Get medical attention immediately.
- Ingestion**
- | If swallowed, rinse mouth with water (only if the person is conscious) Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Give plenty of water to drink. Do not use mouth-to-mouth method if victim ingested the substance. Obtain medical attention immediately if ingested.

### 4.2 Most important symptoms and effects, both acute and delayed

- | Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to Physician**
- | All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

- Suitable Extinguishing Media**
- | LARGE FIRES: Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray.  
SMALL FIRES: Dry chemical, CO<sub>2</sub> or water spray.

- Unsuitable Extinguishing Media**
- | No data available

### 5.2 Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- | Containers may explode when heated.

- Hazardous Combustion Products**
- | If involved in a fire, this product may decompose to form oxides of carbon, nitrogen, formic acid and ammonia.

### 5.3 Advice for firefighters

- | Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.  
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.  
Wear positive pressure self-contained breathing apparatus (SCBA).  
Runoff from fire control may cause pollution.  
Move containers from fire area if you can do it without risk.

## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal Precautions** | Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Emergency Procedures** | ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container.

### 6.2 Environmental precautions

- | Prevent entry into waterways, sewers, basements or confined areas.

### 6.3 Methods and material for containment and cleaning up

- Containment/Clean-up Measures** | Stop leak if you can do it without risk.  
Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.  
Dike to collect large liquid spills.  
A vapor suppressing foam may be used to reduce vapors.  
Use water spray to reduce vapors or divert vapor cloud drift.  
Neutralize residue with appropriate neutralizing agent. Test area with litmus paper to ensure neutralization is complete.

### 6.4 Reference to other sections

- | Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

- Handling** | Handle and open container with care. Use only with adequate ventilation. Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive liquid to water while stirring to prevent release of heat, steam and fumes. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapours, spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

### 7.2 Conditions for safe storage, including any incompatibilities

- Storage** | Keep container tightly closed. Store in a cool, dry, well-ventilated place. Keep away from incompatible materials. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.

### 7.3 Specific end use(s)

- | Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

- Exposure Limits/Guidelines** | Currently there are no applicable exposure limits established for this material.

### 8.2 Exposure controls

- Engineering Measures/Controls** | Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Personal Protective Equipment

<b>Respiratory</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.
<b>Eye/Face</b>	Wear chemical splash safety goggles.
<b>Skin/Body</b>	Wear appropriate gloves.
<b>Environmental Exposure Controls</b>	Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Clear, colorless liquid with no odor.
Color	Clear, colorless.	Odor	Odorless
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	< 1
Specific Gravity/Relative Density	1.07 Water=1	Water Solubility	Soluble
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	< 1 n-Butyl Acetate = 1		
Flammability			
Flash Point	Data lacking	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

### 9.2 Other Information

- | No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- | No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- | Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- | Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- | Excess heat.

### 10.5 Incompatible materials

- | Strong oxidizing agents, amines, reducing agents, bases, ethyl vinyl ether, hydrogen

fluoride, and compounds incompatible with water. May be corrosive to iron, steel, brass, copper and lead.

## 10.6 Hazardous decomposition products

- Combustion: Products of thermal decomposition include carbon and sulfur oxides.
- Hydrolysis: None known.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

Components		
Impurities, Stabilizers, etc...		
Methanesulfonic acid (15%)	75-75-2	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 200 mg/kg

GHS Properties	Classification
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Acute Toxicity - Oral 4
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Skin Corrosion 1B OSHA HCS 2012 • Skin Corrosion 1B
Skin sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-RE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-SE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	EU/CLP • Serious Eye Damage 1 OSHA HCS 2012 • Serious Eye Damage 1

### Potential Health Effects

#### Inhalation

- Acute (Immediate)** | May cause corrosive burns - irreversible damage.
- Chronic (Delayed)** | Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

#### Skin

- Acute (Immediate)** | Causes severe skin burns and eye damage.
- Chronic (Delayed)** | Repeated or prolonged exposure to corrosive materials will cause dermatitis.

#### Eye

- Acute (Immediate)** | Causes serious eye damage.
- Chronic (Delayed)** | Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.
- Ingestion**
- Acute (Immediate)** | Harmful if swallowed. May cause irreversible damage to mucous membranes.
- Chronic (Delayed)** | Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

**Key to abbreviations**

LD = Lethal Dose

## Section 12 - Ecological Information

### 12.1 Toxicity

- | Material data lacking.

### 12.2 Persistence and degradability

- | Material data lacking.

### 12.3 Bioaccumulative potential

- | Material data lacking.

### 12.4 Mobility in Soil

- | Material data lacking.

### 12.5 Results of PBT and vPvB assessment

- | No PBT and vPvB assessment has been conducted.

### 12.6 Other adverse effects

- | No studies have been found.

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

- Product waste** | Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Packaging waste** | Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN2586	Alkyl Sulfonic Acids, liquid	8	II	NDA
TDG	UN2586	ALKYL SULFONIC ACIDS, LIQUID	8	II	NDA
IMO/IMDG	UN2586	ALKYL SULFONIC ACIDS, LIQUID	8	II	NDA
IATA/ICAO	UN2586	Alkyl Sulfonic Acids, liquid	8	II	NDA



**14.6 Special precautions for user** | None known.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | Not relevant.

## Section 15 - Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications** | Acute

State Right To Know				
Component	CAS	MA	NJ	PA
Methanesulfonic acid	75-75-2	No	Yes	No

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Methanesulfonic acid	75-75-2	Yes	No	Yes	Yes	No

Inventory (Con't.)		
Component	CAS	TSCA
Methanesulfonic acid	75-75-2	Yes

## Canada

### Labor

#### Canada - WHMIS - Classifications of Substances

• Methanesulfonic acid 75-75-2 Not Listed

#### Canada - WHMIS - Ingredient Disclosure List

• Methanesulfonic acid 75-75-2 Not Listed

### Environment

#### Canada - CEPA - Priority Substances List

• Methanesulfonic acid 75-75-2 Not Listed

## China

### Environment

#### China - Ozone Depleting Substances - First Schedule

• Methanesulfonic acid 75-75-2 Not Listed

#### China - Ozone Depleting Substances - Second Schedule

• Methanesulfonic acid 75-75-2 Not Listed

#### China - Ozone Depleting Substances - Third Schedule

• Methanesulfonic acid 75-75-2 Not Listed

**Other****China - Annex I & II - Controlled Chemicals Lists**

• Methanesulfonic acid	75-75-2	Not Listed
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**China - Dangerous Goods List**

• Methanesulfonic acid	75-75-2	Not Listed
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**China - Export Control List - Part I Chemicals**

• Methanesulfonic acid	75-75-2	Not Listed
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**Europe****Other****EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**

• Methanesulfonic acid	75-75-2	C; R34
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**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits**

• Methanesulfonic acid	75-75-2	Not Listed
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**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling**

• Methanesulfonic acid	75-75-2	C R:34 S:(1/2)-26-36-45
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**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations**

• Methanesulfonic acid	75-75-2	Not Listed
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**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases**

• Methanesulfonic acid	75-75-2	S:(1/2)-26-36-45
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**Germany****Environment****Germany - TA Luft - Types and Classes**

• Methanesulfonic acid	75-75-2	Not Listed
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**Germany - Water Classification (VwVwS) - Annex 1**

• Methanesulfonic acid	75-75-2	Not Listed
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**Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes**

• Methanesulfonic acid	75-75-2	Not Listed
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**Germany - Water Classification (VwVwS) - Annex 3**

• Methanesulfonic acid	75-75-2	ID Number 2144, hazard class 1 - low hazard to waters
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**Other****Germany - Specifically Regulated Chemicals in TRGS**

• Methanesulfonic acid	75-75-2	Not Listed
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**Portugal****Other****Portugal - Prohibited Substances**

• Methanesulfonic acid	75-75-2	Not Listed
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**United Kingdom**

**Environment****United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air**

• Methanesulfonic acid	75-75-2	Not Listed
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**Other****United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review**

• Methanesulfonic acid	75-75-2	Not Listed
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**United Kingdom - List of Dangerous Substances in Water**

• Methanesulfonic acid	75-75-2	Not Listed
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**United States****Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Methanesulfonic acid	75-75-2	Not Listed
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**U.S. - OSHA - Specifically Regulated Chemicals**

• Methanesulfonic acid	75-75-2	Not Listed
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**Environment****U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• Methanesulfonic acid	75-75-2	Not Listed
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**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

• Methanesulfonic acid	75-75-2	Not Listed
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**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**

• Methanesulfonic acid	75-75-2	Not Listed
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**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**

• Methanesulfonic acid	75-75-2	Not Listed
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**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**

• Methanesulfonic acid	75-75-2	Not Listed
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**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

• Methanesulfonic acid	75-75-2	Not Listed
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**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**

• Methanesulfonic acid	75-75-2	Not Listed
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**United States - California****Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Methanesulfonic acid	75-75-2	Not Listed
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**U.S. - California - Proposition 65 - Developmental Toxicity**

• Methanesulfonic acid	75-75-2	Not Listed
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**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

• Methanesulfonic acid	75-75-2	Not Listed
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**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

• Methanesulfonic acid	75-75-2	Not Listed
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**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**

• Methanesulfonic acid

75-75-2

Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

• Methanesulfonic acid

75-75-2

Not Listed

**United States - Pennsylvania****Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Methanesulfonic acid

75-75-2

Not Listed

**U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**

• Methanesulfonic acid

75-75-2

Not Listed

**15.2 Chemical Safety Assessment**

| No Chemical Safety Assessment has been carried out.

**Section 16 - Other Information****Last Revision Date** | 09/December/2014**Preparation Date** | 09/December/2014

**Disclaimer/Statement of Liability** | To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

**Key to abbreviations**

NDA = No data available