

## Hydrogen chloride, 6 N in isopropanol

Safety Data Sheet M017503

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/17/2015 Revision date: 12/13/2016 Version: 1.2

| <b>SECTION 1: Identification</b>                 | 1   |
|--|---|
| 1.1. Identification                              |   |
| Product form                                     | : Mixture   |
| Product name                                     | : Hydrogen chloride, 6 N in isopropanol                                     |
| Product code                                     | : M017-5-03   |
| 1.2. Relevant identified us                      | es of the substance or mixture and uses advised against                     |
| No additional information available              | e   |
| 1.3. Details of the supplier                     | r of the safety data sheet  |
| SynQuest Laboratories, Inc.                      |   |
| P.O. Box 309<br>Alachua, FL 32615 - United State | s of America  |
| T (386) 462-0788 - F (386) 462-7                 | 097   |
| info@synquestlabs.com - www.sy                   |   |
| 1.4. Emergency telephone                         |   |
| Emergency number                                 | : (844) 523-4086 (3E Company - Account 10069)                               |
| SECTION 2: Hazard(s) ide                         | entification  |
| 2.1. Classification of the s                     | ubstance or mixture   |
| Classification (GHS-US)                          |   |
| Flam. Liq. 2                                     | H225 - Highly flammable liquid and vapour                                   |
| Met. Corr. 1<br>Acute Tox. 4 (Oral)              | H290 - May be corrosive to metals<br>H302 - Harmful if swallowed            |
| Acute Tox. 4 (Inhalation:vapour)                 | H302 - Harmful if inhaled   |
| Skin Corr. 1A                                    | H314 - Causes severe skin burns and eye damage                              |
| Eye Dam. 1<br>STOT SE 3                          | H318 - Causes serious eye damage<br>H335 - May cause respiratory irritation |
| Full text of H-phrases: see section              |   |
|  |   |
| 2.2. Label elements                              |   |
|  |   |
| GHS-US labeling                                  |   |

GHS05

GHS07

| Signal word (GHS-US)<br>Hazard statements (GHS-US) | <ul> <li>Danger</li> <li>H225 - Highly flammable liquid<br/>H290 - May be corrosive to me<br/>H302+H332 - Harmful if swallo<br/>H314 - Causes severe skin bur<br/>H318 - Causes serious eye dar<br/>H335 - May cause respiratory in</li> </ul>   | tals<br>wed or if inhaled<br>ns and eye damage<br>nage  |                |
|--|--|---|----------------|
| Precautionary statements (GHS-US)                  | P233 - Keep container tightly cl<br>P234 - Keep only in original con<br>P240 - Ground/bond container<br>P241 - Use explosion-proof ele<br>P242 - Use only non-sparking t<br>P243 - Take precautionary mea<br>P260 - Do not breathe dust/furr<br>P261 - Avoid breathing dust/furr<br>P264 - Wash skin thoroughly al<br>P270 - Do not eat, drink or smc<br>P271 - Use only outdoors or in<br>P280 - Wear protective gloves/<br>P301+P312 - If swallowed: Call<br>P301+P330+P331 - If swallowed | ntainer<br>and receiving equipment<br>ctrical/ventilating/lighting equipment<br>ools<br>asures against static discharge<br>ne/gas/mist/vapors/spray<br>ne/gas/mist/vapors/spray<br>ter handling<br>ke when using this product | ou feel unwell |
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|      |               | skin with water/shower<br>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing<br>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact<br>lenses, if present and easy to do. Continue rinsing<br>P310 - Immediately call a POISON CENTER or doctor/ physician<br>P312 - Call a POISON CENTER or doctor/physician if you feel unwell<br>P321 - Specific treatment (see supplemental first aid instructions on this label)<br>P330 - Rinse mouth<br>P363 - Wash contaminated clothing before reuse<br>P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish<br>P390 - Absorb spillage to prevent material damage<br>P403+P233 - Store in a well-ventilated place. Keep container tightly closed<br>P403+P235 - Store in a well-ventilated place. Keep cool<br>P405 - Store locked up<br>P406 - Store in corrosive resistant container with a resistant inner liner<br>P501 - Dispose of contents/container to an approved waste disposal plant |
|------|---------------|---|
| 2.3. | Other hazards |   |

Other hazards not contributing to the

: None under normal conditions.

classification

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/information on ingredients

### 3.1. Substance

- Not applicable
- 3.2. Mixture

| Name              | Product identifier | %       | Classification (GHS-US)   |
|-------------------|--------------------|---------|---|
| Isopropyl alcohol | (CAS No) 67-63-0   | 70 - 80 | Flam. Liq. 2, H225<br>Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336 |
| Hydrochloric acid | (CAS No) 7647-01-0 | 20 - 30 | Liquefied gas, H280<br>Met. Corr. 1, H290<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318      |

Full text of H-phrases: see section 16

| SECTION 4: First aid measures          |  |
|--|--|
| 4.1. Description of first aid measures |  |
| First-aid measures general             | : Call a physician immediately.  |
| First-aid measures after inhalation    | : Remove person to fresh air and keep comfortable for breathing. Call a doctor.  |
| First-aid measures after skin contact  | : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.   |
| First-aid measures after eye contact   | <ul> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to<br/>do. Continue rinsing. Call a physician immediately.</li> </ul> |
| First-aid measures after ingestion     | : Rinse mouth. Do not induce vomiting. Call a physician immediately.   |
| 4.2. Most important symptoms and effe  | ects, both acute and delayed   |
| Symptoms/injuries                      | : May cause drowsiness or dizziness.   |
| Symptoms/injuries after inhalation     | : May cause respiratory irritation.  |
| Symptoms/injuries after skin contact   | : Burns.   |
| Symptoms/injuries after eye contact    | : Serious damage to eyes.  |
| Symptoms/injuries after ingestion      | : Burns.   |
| 4.3. Indication of any immediate medic | al attention and special treatment needed  |
| Treat symptomatically.                 |  |
| SECTION 5: Firefighting measures       |  |
| 5.1. Extinguishing media               |  |
| Suitable extinguishing media           | · Water spray, Dry powder, Foam, Carbon dioxide  |

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|------------|--------------------------------------|--|-----------------|-----|
| Reactivity | /                                    | : Highly flammable liquid and vapor.         |                 |     |
| Fire haza  | rd                                   | : Highly flammable liquid and vapor.         |                 |     |
| 5.2.       | Special hazards arising from the sub | stance or mixture                            |                 |     |
| Suitable   | extinguishing media                  | : Water spray. Dry powder. Foam. Carbon diox | lide.           |     |

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|----------|---|---|
| 5.3.     | Advice for firefighters                 |   |
| Protecti | on during firefighting                  | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.  |
| SECT     | ION 6: Accidental release meas          | sures   |
| 6.1.     | Personal precautions, protective equip  | uipment and emergency procedures  |
| 6.1.1.   | For non-emergency personnel             |   |
| Emerge   | ncy procedures                          | : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.   |
| 6.1.2.   | For emergency responders                |   |
| Protecti | ve equipment                            | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".   |
| 6.2.     | Environmental precautions               |   |
| Avoid re | elease to the environment.              |   |
| 6.3.     | Methods and material for containme      | ent and cleaning up   |
| Method   | s for cleaning up                       | : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.   |
| Other ir | formation                               | : Dispose of materials or solid residues at an authorized site.   |
| 6.4.     | Reference to other sections             |   |
| For furt | her information refer to section 13.    |   |
| SECT     | ION 7: Handling and storage             |   |
| 7.1.     | Precautions for safe handling           |   |
| Precaut  | ions for safe handling                  | : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. |
| Hygiene  | e measures                              | : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.  |
| 7.2.     | Conditions for safe storage, includir   | ng any incompatibilities  |
| Technic  | al measures                             | : Ground/bond container and receiving equipment.  |
| Storage  | conditions                              | : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store in corrosive  |

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. **Control parameters**

| Isopropyl alcohol (67-63-0)   |                                     |                           |
|-------------------------------|-------------------------------------|---------------------------|
| ACGIH                         | ACGIH TWA (ppm)                     | 200 ppm                   |
| ACGIH                         | ACGIH STEL (ppm)                    | 400 ppm                   |
| ACGIH                         | Remark (ACGIH)                      | Eye & URT irr; CNS impair |
| OSHA                          | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 980 mg/m³                 |
| OSHA                          | OSHA PEL (TWA) (ppm)                | 400 ppm                   |
| Hydrochloric acid (7647-01-0) |                                     |                           |
| •                             |                                     |                           |

| Hydrochloric acid (7647-01-0) |   |         |
|-------------------------------|---|---------|
| ACGIH                         | ACGIH Ceiling (ppm)                     | 2 ppm   |
| ACGIH                         | Remark (ACGIH)                          | URT irr |
| OSHA                          | OSHA PEL (Ceiling) (mg/m <sup>3</sup> ) | 7 mg/m³ |
| OSHA                          | OSHA PEL (Ceiling) (ppm)                | 5 ppm   |

- 8.2. **Exposure controls**
- Appropriate engineering controls : Ensure good ventilation of the work station. Hand protection

: Protective gloves.

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resistant container with a resistant inner liner. Keep only in original container. Store locked up.

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| Eye protection                              | : Safety glasses.                    |
|---|--------------------------------------|
| Skin and body protection                    | : Wear suitable protective clothing. |
| Respiratory protection                      | : Wear respiratory protection.       |
| Environmental exposure controls             | : Avoid release to the environment.  |
|   |                                      |
| SECTION 9: Physical and chemical properties |                                      |

| SECTION 9. Physical and chemical            |  |
|---|--|
| 9.1. Information on basic physical and      | I chemical properties  |
| Physical state                              | : Liquid   |
| Color                                       | : Mixture contains one or more component(s) which have the following colour(s):<br>Colorless   |
| Odor  | <ul> <li>There may be no odour warning properties, odour is subjective and inadequate to warn of<br/>overexposure.</li> <li>Mixture contains one or more component(s) which have the following odour(s):<br/>alcohol-like choking</li> </ul> |
| Odor threshold                              | : No data available  |
| рН  | : No data available  |
| Melting point                               | : Not applicable   |
| Freezing point                              | : No data available  |
| Boiling point                               | : No data available  |
| Flash point                                 | : No data available  |
| Relative evaporation rate (butyl acetate=1) | : No data available  |
| Flammability (solid, gas)                   | : No data available  |
| Explosion limits                            | : No data available  |
| Explosive properties                        | : No data available  |
| Oxidizing properties                        | : No data available  |
| Vapor pressure                              | : No data available  |
| Relative density                            | : No data available  |
| Relative vapor density at 20 °C             | : No data available  |
| Specific gravity / density                  | : 0.914 g/ml (@ 25 °C)   |
| Solubility                                  | : Water: Solubility in water of component(s) of the mixture :<br>• Hydrochloric acid: 823 g/l (at 0 °C)  |
| Log Pow                                     | : No data available  |
| Auto-ignition temperature                   | : No data available  |
| Decomposition temperature                   | : No data available  |
| Viscosity                                   | : No data available  |
| Viscosity, kinematic                        | : No data available  |
| Viscosity, dynamic                          | : No data available  |
|   |  |

### 9.2. Other information

No additional information available

| SECTI      | ON 10: Stability and reactivity   |
|------------|---|
| 10.1.      | Reactivity  |
| Highly fla | ammable liquid and vapor.   |
| 10.2.      | Chemical stability  |
| Stable u   | inder normal conditions.  |
| 10.3.      | Possibility of hazardous reactions  |
| No dang    | perous reactions known under normal conditions of use.  |
| 10.4.      | Conditions to avoid   |
| Avoid co   | ontact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.                |
| 10.5.      | Incompatible materials  |
| Acids. B   | ases. Oxidizing agents. Alkali metals. Metals. Amines. Fluorine. Isocyanates. Peroxides. Permanganates. |
| 10.6.      | Hazardous decomposition products  |

Carbon oxides. Hydrogen chloride.

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### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

### Acute toxicity

: Oral: Harmful if swallowed. Inhalation:vapour: Harmful if inhaled.

| Hydrogen chloride, 6 N in isopropanol<br>ATE US (oral) | 592.308 mg/kg body weight                    |
|--|--|
| ATE US (vapors)  | 11.000 mg/l/4h                               |
|  | 11.000 mg///4n                               |
| Isopropyl alcohol (67-63-0)                            |  |
| LD50 oral rat  | 1870 mg/kg                                   |
| LD50 dermal rabbit                                     | 4059 mg/kg                                   |
| LC50 inhalation rat (mg/l)                             | 72600 mg/m <sup>3</sup> (Exposure time: 4 h) |
| ATE US (oral)  | 1870.000 mg/kg body weight                   |
| ATE US (dermal)  | 4059.000 mg/kg body weight                   |
| Hydrochloric acid (7647-01-0)                          |  |
| LD50 oral rat  | 238 - 277 mg/kg                              |
| LD50 dermal rabbit                                     | > 5010 mg/kg                                 |
| LC50 inhalation rat (mg/l)                             | 1.68 mg/l (Exposure time: 1 h)               |
| ATE US (oral)  | 238.000 mg/kg body weight                    |
| ATE US (vapors)  | 1.680 mg/l/4h                                |
| ATE US (dust, mist)                                    | 1.680 mg/l/4h                                |
| Skin corrosion/irritation                              | : Causes severe skin burns and eye damage.   |
| Serious eye damage/irritation                          | : Causes serious eye damage.                 |
| Respiratory or skin sensitization                      | : Not classified                             |
| Germ cell mutagenicity                                 | : Not classified                             |
| Carcinogenicity  | : Not classified                             |
| Isopropyl alcohol (67-63-0)                            |  |
| IARC group   | 3 - Not classifiable                         |
| Hydrochloric acid (7647-01-0)                          |  |
| IARC group   | 3 - Not classifiable                         |
| Reproductive toxicity                                  | : Not classified                             |
| Specific target organ toxicity (single exposure)       | : May cause respiratory irritation.          |
| Specific target organ toxicity (repeated<br>xposure)   | : Not classified                             |
| Aspiration hazard                                      | : Not classified                             |
| Symptoms/injuries after inhalation                     | : May cause respiratory irritation.          |
| Symptoms/injuries after skin contact                   | : Burns.                                     |
| Symptoms/injuries after eye contact                    | : Serious damage to eyes.                    |
| Symptoms/injuries after ingestion                      | : Burns.                                     |

| ezerient iz. zeelegiea mematom |   |
|--------------------------------|---|
| 12.1. Toxicity                 |   |
| Ecology - general              | : Before neutralisation, the product may represent a danger to aquatic organisms. |
| Isopropyl alcohol (67-63-0)    |   |
| LC50 fish 1                    | 9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])     |
| EC50 Daphnia 1                 | 13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)                         |
| LC50 fish 2                    | 11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])          |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

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| Log Dow  |   |
|--|---|
| Log Pow  | 0.05 (at 25 °C)   |
| 2.4. Mobility in soil  |   |
| No additional information available                                |   |
|  |   |
| 2.5. Other adverse effects   |   |
| Effect on the global warming                                       | : No known ecological damage caused by this product.  |
|  |   |
| SECTION 13: Disposal considerations                                |   |
| 3.1. Waste treatment methods                                       |   |
|  | : Dispose of contents/container in accordance with licensed collector's sorting instructions.   |
|  | : Flammable vapors may accumulate in the container.   |
|  |   |
| SECTION 14: Transport information                                  |   |
| Department of Transportation (DOT)                                 |   |
| n accordance with DOT  |   |
|  | : UN2924 Flammable liquids, corrosive, n.o.s. (Isopropyl alcohol(67-63-0) ; Hydrochloric  |
| ·····  | acid(7647-01-0)), 3, II   |
|  |   |
|  | : UN2924  |
| roper Shipping Name (DOT)  | : Flammable liquids, corrosive, n.o.s.  |
|  | Isopropyl alcohol(67-63-0) ; Hydrochloric acid(7647-01-0)   |
|  | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120   |
| lazard labels (DOT)  | : 3 - Flammable liquid<br>8 - Corrosive   |
|  |   |
| Packing group (DOT)  | : II - Medium Danger  |
| OOT Packaging Non Bulk (49 CFR 173.xxx)                            | : 202   |
| OOT Packaging Bulk (49 CFR 173.xxx)                                | : 243   |
| OOT Symbols  | : G - Identifies PSN requiring a technical name   |
|  | : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal |
| DOT Packaging Exceptions (49 CFR 173.xxx) :                        | : 150   |
| OOT Quantity Limitations Passenger aircraft/rail                   | : 1L  |
| 49 CFR 173.27)<br>DOT Quantity Limitations Cargo aircraft only (49 |   |

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| 5                                   |   |
|-------------------------------------|---|
| 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. |
| DOT Vessel Stowage Other            | : 40 - Stow "clear of living quarters"  |
| Other information                   | : No supplementary information available.   |
| TDG                                 |   |
| No additional information available |   |
| Transport by sea                    |   |
| UN-No. (IMDG)                       | : 2924  |
| Proper Shipping Name (IMDG)         | : FLAMMABLE LIQUID, CORROSIVE, N.O.S.   |
| Class (IMDG)                        | : 3 - Flammable liquids   |
| Packing group (IMDG)                | : II - substances presenting medium danger  |
| Air transport                       |   |
| UN-No. (IATA)                       | : 2924  |
| Proper Shipping Name (IATA)         | : Flammable liquid, corrosive, n.o.s.   |
| Class (IATA)                        | : 3 - Flammable Liquids   |
| Packing group (IATA)                | : II - Medium Danger  |
|                                     |   |

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

| Isopropyl alcohol (67-63-0)  |  |
|--|--|
| Listed on the United States TSCA (Toxic Substar<br>Subject to reporting requirements of United State   |  |
| EPA TSCA Regulatory Flag   | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.                 |
| SARA Section 313 - Emission Reporting  | 1.0 % (only if manufactured by the strong acid process, no supplier notification)                      |
| Hydrochloric acid (7647-01-0)  |  |
| Listed on the United States TSCA (Toxic Substar<br>Listed on the United States SARA Section 302<br>Subject to reporting requirements of United State |  |
| CERCLA RQ  | 5000 lb  |
| SARA Section 302 Threshold Planning<br>Quantity (TPQ)  | 500 (gas only)   |
| SARA Section 313 - Emission Reporting  | 1.0 % (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size) |

### 15.2. International regulations

### CANADA

| Isopropyl alcohol (67-63-0)                          |   |  |
|--|---|--|
| Listed on the Canadian DSL (Domestic Sustances List) |   |  |
| WHMIS Classification                                 | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects  |  |
| Hydrochloric acid (7647-01-0)                        |   |  |
| Listed on the Canadian DSL (Domestic Sustances List) |   |  |
| WHMIS Classification                                 | Class A - Compressed Gas<br>Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic<br>effects<br>Class E - Corrosive Material |  |

### **EU-Regulations**

No additional information available

### **National regulations**

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| Isopropyl alcohol (67-63-0)   |  |
|---|--|
| Listed on the AICS (Australian Inventory of Chemical Substances)  |  |
| Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)   |  |
| Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  |  |
| Listed on the Japanese ISHL (Industrial Safety and Health Law)  |  |
| Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)                                |  |
| Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  |  |
| Listed on the Canadian IDL (Ingredient Disclosure List)   |  |
| Listed on INSQ (Mexican national Inventory of Chemical Substances)  |  |
| Listed on Turkish inventory of chemical   |  |
| Hydrochloric acid (7647-01-0)   |  |
| Listed on the AICS (Australian Inventory of Chemical Substances)  |  |
| Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)   |  |
| Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  |  |
| Listed on the Korean ECL (Existing Chemicals List)  |  |
| Listed on NZIOC (New Zealand Inventory of Chemicals)  |  |
| Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Japanese Poisonous and Deleterious Substances Control Law |  |
| Listed on the Canadian IDL (Ingredient Disclosure List)   |  |
| Listed on the Valiavian DE (Ingredient Disclosure List)   |  |
| Listed on INSQ (Mexican national Inventory of Chemical Substances)  |  |
| Listed on INSQ (Mexican national Inventory of Chemical Substances)<br>Listed on Turkish inventory of chemical                             |  |

15.3. US State regulations

### Isopropyl alcohol (67-63-0)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

### Hydrochloric acid (7647-01-0)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) List

### **SECTION 16: Other information**

Revision date

### : 12/13/2016

Full text of H-phrases:

| Acute Tox. 4 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 4               |
|----------------------------------|---|
| Acute Tox. 4 (Oral)              | Acute toxicity (oral) Category 4                            |
| Eye Dam. 1                       | Serious eye damage/eye irritation Category 1                |
| Eye Irrit. 2A                    | Serious eye damage/eye irritation Category 2A               |
| Flam. Liq. 2                     | Flammable liquids Category 2                                |
| Liquefied gas                    | Gases under pressure Liquefied gas                          |
| Met. Corr. 1                     | Corrosive to metals Category 1                              |
| Skin Corr. 1A                    | Skin corrosion/irritation Category 1A                       |
| STOT SE 3                        | Specific target organ toxicity (single exposure) Category 3 |
| STOT SE 3                        | Specific target organ toxicity (single exposure) Category 3 |
| H225                             | Highly flammable liquid and vapor                           |
| H280                             | Contains gas under pressure; may explode if heated          |
| H290                             | May be corrosive to metals                                  |
| H302                             | Harmful if swallowed  |
| H314                             | Causes severe skin burns and eye damage                     |
| H318                             | Causes serious eye damage                                   |
| H319                             | Causes serious eye irritation                               |
| H332                             | Harmful if inhaled  |
| H335                             | May cause respiratory irritation                            |
| H336                             | May cause drowsiness or dizziness                           |

Safety Data Sheet

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

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