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

- **1.1 Product identifier**
  - Trade name: STOP
  - Other names: Stop Solution

- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - No further relevant information available.

- **1.3 Details of the supplier of the safety data sheet**
  - Supplier: TestLine Clinical Diagnostics s.r.o.
  - Production of diagnostic sets for human, veterinary, inorganic and organic laboratories.
  - Business Address: Křižíkova 68, 612 00 Brno, Czech Republic
  - Company Identification Number: 479 13 240
  - Phone/Fax: +420 541 243 390
  - E-mail: pospisiljar@testlinecd.com / WWW: www.testlinecd.com

- **1.4 Emergency telephone number**
  - Phone: +420 224 919 293 or +420 224 915 402; E-mail: tis@vfn.cz
  - Toxicology Information Centre in Prague (TIS), Na Bojišti 1, 120 00 Prague 2
  - Permanent medical information service for cases of acute poisoning of humans and animals.

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
  - Classification according to Regulation (EC) No 1272/2008
  - The product is classified as dangerous in the terms of the Regulation (EC) No 1272/2008 (CLP).
  - Skin Corr. 1B H314 Causes severe skin burns and eye damage.
  - Eye Dam. 1 H318 Causes serious eye damage.

- **2.2 Label elements**
  - Labelling according to Regulation (EC) No 1272/2008:
    - The product is classified and labelled according to the CLP regulation.
  - Hazard pictograms:
    - GHS05

- **2.3 Other hazards**
  - Results of PBT and vPvB assessment
    - PBT:
      - The mixture does not contain substances classified as of the date of preparation of the safety data sheet as PBT pursuant to Regulation (EC) No 1907/2006 (REACH).
SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:
- CAS: 75-75-2
- EINECS: 200-898-6
- Index number: 807-145-00-4
- Reg.-No: 01-2119491166-34-XXXX
- Methanesulfonic acid
  - Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; STOT SE 3, H335
  - 10.0%

Non dangerous components:
- CAS: 7732-18-5
- EINECS: 231-791-2
- Water, distilled, conductivity or of similar purity
  - 90.0%

SVHC:
The product does not contain substances classified as of the date of preparation of the safety data sheet as PBT or vPvB and stated in the Candidate list of substances producing very high concerns for Appendix XIV of Regulation (EC) No 1907/2006 (REACH).


Additional information:
The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3 of the Regulation (EC) No 1272/2008 (CLP Regulation) this means that all notes that may be given here for the named classification have been taken into account. For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
General information:
In case of doubt, appearance of symptoms or upon any problems, seek medical help and present this safety data sheet or the product label.
Immediately remove any clothing soiled by the product.

After inhalation:
Remove person from danger area. Take care of fresh air supply and seek medical assistance upon subsequent or lasting problems. If the person is unconscious, place in a stable side position and consult a physician.

After skin contact:
Wash the affected skin with water and soap and rinse thoroughly. Seek medical assistance immediately.

After eye contact:
Open the eyelids, possibly remove the contact lenses, and thoroughly rinse the affected eyes with clean flowing water for 10 - 15 minutes. Seek medical assistance immediately.

After swallowing:
Thoroughly rinse the mouth with water, have the affected person drink plenty of water and do not induce vomiting. Seek medical assistance immediately. Never put anything into the affected person’s mouth, unless the person is conscious.


4.2 Most important symptoms and effects, both acute and delayed
Possible toxicological effects resulting from the classification are stated in Section 11.
The following may occur:
Upon inhalation:
Respiratory tract irritation.
Cough, headache and nausea.

Upon eye contact:
Danger of serious eye damage.

Upon ingestion:
Digestive tract problems, stomach and bowels irritation.

4.3 Indication of any immediate medical attention and special treatment needed
In case of ingestion, upon skin contact or eye affection, seek medical help immediately.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
Alcohol resistant foam, carbon dioxide CO2, water spray or water mist, extinguishing powder.
**SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures
- Ensure adequate ventilation.
- Avoid inhalation.
- Wear protective equipment. Keep unprotected persons away.
- Prevent contact of the product with eyes, skin, and clothing, use personal protective equipment.
- Prevent entry of unauthorised persons.

### 6.2 Environmental precautions
- Prevent increasing of the leaked quantity. Do not let the product enter the sewerage, surface and ground water and soil. Upon a more extensive leak of the product into the environment, proceed according to local regulations and contact the respective departments of local authorities.

### 6.3 Methods and material for containment and cleaning up
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and place into suitable and marked vessels.
- Possibly wipe the leaked product with a paper towel and place it into a waste vessel.
- Thoroughly wash the affected spot and the tools used with a suitable detergent, it is possible to use a larger quantity of water.

### 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

**SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling
- Before use, it is necessary to familiarize oneself with the contents of Sections 2, 6, 8, and 11 of the safety data sheet.
- Prevent contact of the product with the skin and eyes, use personal protective means.
- Avoid inhalation.
- Use working methods according to operating instructions.
- General hygiene measures for the handling of chemicals are applicable.
- Before a pause and after ending the work, wash the hands and take off the polluted working clothes. Keep these clothes separately.
- Remove contaminated clothing and protective equipment before entering areas in which food is consumed.
- Do not eat, drink, smoke, or snuff during use.

### 7.2 Conditions for safe storage, including any incompatibilities
- **Storage**
  - Requirements to be met by storerooms and receptacles:
    - Provide acid-resistant floor.
    - Store only in unopened original receptacles.
    - Vessels already open must be reclosed carefully and stored in the upright position in order to prevent leakage of the contents.
    - Information about storage in one common storage facility:
      - Do not store together with alkalis (caustic solutions).
      - Keep away from food, drink and animal feedingstuffs.
Further information about storage conditions:
- Store in a dry and well ventilated place.
- Keep containers tightly sealed.
- Store under lock and key and with access restricted to technical experts or their assistants only.
- Recommended storage temperature: Store at room temperature.

7.3 Specific end use(s)
The product is intended only for professional use.
Specific use is stated in the manual for use on the product packaging label or in the product documentation.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities:
  Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under WEL or IOEL values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

- 8.1 Control parameters
  - Ingredients with limit values that require monitoring at the workplace:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - DNELs: No values available.
  - PNECs: No values available.
  - Ingredients with biological limit values:
    The product does not contain any relevant quantities of materials with biological limit values.
  - Additional information: The lists valid during the making were used as basis.

- 8.2 Exposure controls
  - Personal protective equipment
    - General protective and hygienic measures:
      The usual precautionary measures are to be adhered to when handling chemicals.
      Keep away from foodstuffs, beverages and feed.
      Do not eat, drink, smoke or sniff while working.
      Immediately remove all soiled and contaminated clothing.
      Wash hands before breaks and at the end of work.
      Avoid contact with the eyes and skin.
    - Respiratory protection:
      Unnecessary during regular use.
      In case of insufficient ventilation use a suitable breathing mask with a filter (EN 14387+A1).
    - Recommended filter device for short term use: Filter ABEK (EN 14387+A1).
    - Protection of hands:
      Protective gloves (EN 374).
      Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
      Preventive skin protection by use of skin-protecting agents is recommended.
      - Material of gloves:
        - For long-term contact:
          Natural rubber, latex (EN 374).
          Recommended thickness of the material: \( \geq 0.6 \) mm.
        - For short-term contact:
          Nitrile rubber gloves (EN 374).
          Recommended thickness of the material: \( \geq 0.2 \) mm.
          Use for example:
          For example protective surgical gloves.
          The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
        - Penetration time of glove material:
          \( > 480 \) minutes (EN 374).
          No tests have been performed, glove resistance must be tested before use.
          The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)
**SECTION 9: Physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Information</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td></td>
</tr>
<tr>
<td>Form</td>
<td>Fluid</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH-value</td>
<td>&lt; 1</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Ignition temperature</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>Explosion limits</strong></td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>Not determined</td>
</tr>
<tr>
<td>Upper</td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Oxidising properties</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>1.02 g/cm³</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with water</strong></td>
<td>Miscible</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td></td>
</tr>
<tr>
<td>Dynamic</td>
<td>Not determined</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Solvent content</strong></td>
<td></td>
</tr>
<tr>
<td>VOC (2010/75/EC)</td>
<td>Not apply</td>
</tr>
<tr>
<td><strong>9.2 Other information</strong></td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity:** Upon adhering to the determined regulations of storage and use, no reactivity is expected (see Section 7).
- **10.2 Chemical stability:**
  Upon adhering to the determined regulations of storage and use, the product is stable (see Section 7).
SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity: Based on available data, the classification criteria are not met.

<table>
<thead>
<tr>
<th>ATE (Acute Toxicity Estimates)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
</tr>
<tr>
<td>Dermal ATE</td>
</tr>
</tbody>
</table>

75-75-2 methanesulphonic acid

| Oral LD50 | 500 mg/kg (ATE) |
| Dermal ATE | 1,100 mg/kg (ATE) |

- Primary irritant effect
- Skin corrosion/irritation:
  Causes severe skin burns and eye damage.
- Serious eye damage/irritation:
  Causes serious eye damage.
- Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
- Additional toxicological information:
  Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- Acute effects:
  Serious eye damage - Eye Dam. 1.
  Skin/eyes corrosion - Skin Corr. 1A.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): No CMR effects are known.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.
- Other information: No further information is available.

SECTION 12: Ecological information

12.1 Toxicity
- Aquatic toxicity: Based on the available data, the classification criterions are not met.
- 12.2 Persistence and degradability: No further relevant information available.
- Behaviour in waste water treatment plants: No relevant information is available.

12.3 Bioaccumulative potential

75-75-2 methanesulphonic acid

- log Pow : 4.96
- bioaccumulation is not expected

12.4 Mobility in soil: No further relevant information available.
- Additional ecological information
- AOX-indication: No relevant information is available.
- General notes:
  Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  Must not reach sewage water or drainage ditch undiluted or unneutralised.
- 12.5 Results of PBT and vPvB assessment
- PBT: The mixture does not contain substances classified as of the date of preparation of the safety data sheet as the PBT pursuant to Regulation (EC) No 1907/2006 (REACH).
SECTION 12: Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation:
Must not be disposed together with household waste. Do not allow product to reach sewage system.
Hand over to hazardous waste disposers.
E.g. put away at suitable waste dumps or remove in suitable waste incineration plants.

Waste disposal key:
The catalogue numbers with the asterisk (*) mark hazardous waste (N), numbers without the asterisk mark other waste (O). The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC).

European waste catalogue and hazardous properties of waste:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 01 06*</td>
<td>other acids</td>
</tr>
<tr>
<td>15 01 10*</td>
<td>packaging containing residues of or contaminated by hazardous substances</td>
</tr>
<tr>
<td>15 01 02</td>
<td>plastic packaging</td>
</tr>
<tr>
<td>HP 8</td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

13.2 Uncleaned packaging

Recommendation:
Dispose of packaging according to regulations on the disposal of packagings.
Non contaminated packagings may be reused.
Dispose of packaging that cannot be cleaned in the same manner as the mixture.
Empty container completely. Dispose of hazardous waste pursuant to corresponding local directives in adequate equipment.
Put other waste away according to the material type into collection vessels for sorted waste.

Regulations:

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA
UN3265

14.2 UN proper shipping name

ADR
IMDG, IATA
3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

14.3 Transport hazard class(es)

ADR

- Class: 8 (C3) Corrosive substances.
- Label: 8

IMDG, IATA

- Class: 8 Corrosive substances.
- Label: 8

(Contd. on page 8)
Safety data sheet  

Printing date: 03.05.2018  
Revision: 03.05.2018  
Version number: 3

Trade name: STOP

Contd. of page 7

- 14.4 Packing group
  - ADR, IMDG, IATA  
  - II

- 14.5 Environmental hazards
  - Marine pollutant
  - No.

- 14.6 Special precautions for user
  - Persons employed in transporting dangerous goods must be trained.
  - All persons involved in transporting must observe safety regulations.
  - Precautions must be taken to prevent damage.
  - Warning: Corrosive substances.

- Danger code (Kemler):
  - 80

- EMS Number:
  - F-A,S-B

- Stowage Category:
  - B

- Stowage Code:
  - SW2 Clear of living quarters.

- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
  - Not applicable.

- Transport/Additional information:
  - ADR
  - Limited quantities (LQ):
    - 1L
    - Code: E2
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml
  - Transport category:
    - 2
  - Tunnel restriction code:
    - E
  - IMDG
  - Limited quantities (LQ):
    - 1L
    - Code: E2
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml

- UN "Model Regulation":
  - UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Named dangerous substances - ANNEX I: None of the ingredients is listed.
  - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction for the group No 3.

- Legal regulations of the European Community:

- 15.2 Chemical safety assessment
  - A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- Warning:
  - The safety data sheet contains data needed for securing safety and health protection during work and environ-mental protection. The stated data correspond to the current state of knowledge and experience and is in accord-ance with valid legal regulations. It cannot be deemed as a guarantee of the properties, suitability, and usefulness of the product for specific application and therefore no contractual legal relationships are hereby created.
  - The safety data sheet is the property of the physical or legal entity stated in Section 1 and is protected by copy-right. All copying, distribution or sales without the consent of the owner is forbidden.
Safety data sheet

Printing date: 03.05.2018  Version number: 3  Revision: 03.05.2018

Trade name: STOP

(Contd. of page 8)

- Relevant phrases:
  H290 May be corrosive to metals.
  H302 Harmful if swallowed.
  H312 Harmful in contact with skin.
  H314 Causes severe skin burns and eye damage.
  H318 Causes serious eye damage.
  H335 May cause respiratory irritation.

- Training hints:
  Pursuant to article No 35 of the European Parliament and Council Regulation (ES) No 1907/2006, the employer must allow employees or their representatives access to information from the safety data sheet of the substance or preparation, which the employees use or to the effects of which they may be exposed during their work. Physical entities performed individual activities within the scope of handling of this hazardous product are trained and regularly, at least once a year, retrained.

- Product information sources: safety data sheet, product or technical information, safety instructions, and other expert documents for the product, issued by the supplier.

- Recommended restriction of use:
The product is to be used only for the purpose, for which it is designed. It is up to the user’s responsibility to ad-here to the product usage conditions and to respect the safety instructions for health and environmental protection.
The product is designed only for professional purposes. It must not be used in households. The product can only be handled by a person older than 18 years, who is sufficiently informed about the work procedures, hazardous properties of the product, and also about the necessary safety measures.

- Further information:
  This product must be stored, sold, and used in accordance with valid hygienic regulations.

- Classification according to Regulation (EC) No 1272/2008:

<table>
<thead>
<tr>
<th>Skin corrosion/irritation</th>
<th>Calculation method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td></td>
</tr>
</tbody>
</table>

- Department issuing SDS: Studio2K, Ing. Karel Královec, Phone: +420 354 526 677, E-mail: info@studio2k.cz
- First issue of SDS: 25.03.2014
- Internal code formula: 811.006
- Documents used to prepare SDS:
The original documents provided by the supplier or manufacturer related to the product (mixture), eventually to individual substances contained.

- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  VOC: Volatile Organic Compounds (USA, EU)
  DNEL: Derived No-Effect Level (REACH)
  PNEC: Predicted No-Effect Concentration (REACH)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBET: Persistent, Bioaccumulative and Toxic
  SVHC: Substances of Very High Concern
  vPvB: very Persistent and very Bioaccumulative
  Med. Corr. 1: Corrosive to metals – Category 1
  Acute Tox. 4: Acute toxicity – Category 4
  Skin Corr. 1B: Skin corrosion/irritation – Category 1B
  Eye Dam. 1: Serious eye damage/eye irritation – Category 1
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- Sources:
The classification of the mixture was performed pursuant to the European Parliament and Council Regulation (EC) No 1272/2008 (CLP). The data provided by the manufacturers or importers of individual mixture components stated in their safety data sheets served as the basis.
The missing ecotoxicology and toxicology data was obtained from the ESIS (European chemical Substances Information System), specifically from the IUCLID (International Uniform Chemical Information Database). As needed, data from further available chemical databases was used.

- Safety data sheet revision:
  Safety data sheet revision because of the addition of certain data or information.
  Change of chapters: 1, 3, 8, 11 - 13, 15, 16.
  This release of the safety data sheet is its 2 revision and replaces the safety data sheet revised on: 27.07.2015.

- © Studio2K & DR SoftWare ChemGes