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

1.1. Product identifier
Trade name or designation of the mixture
Stop solution
Registration number
-
Synonyms
Stop Solution in 602; in 634; in 635; in 842; in 873
Product code
602, 634, 635, 842, 873
Issue date
01-December-2017
Version number
02
Revision date
13-July-2017
Supersedes date
07-October-2016

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses
Assorted.
Uses advised against
Use in accordance with supplier's recommendations.

1.3. Details of the supplier of the safety data sheet

Corporate Headquarters
BioMedica Diagnostics Inc.
94 Wentworth Road, PO Box 1030
Windsor, Nova Scotia  CANADA  B0N 2T0

Contact person
Corporate Phone: 1-902-798-5105
Corporate Fax: 1-902-798-1025
Email: info@biomedicadiagnostics.com
Website: www.biomedicadiagnostics.com

1.4. Emergency telephone number
US, Canada, Puerto Rico & Virgin Islands 1-800-255-3924
International +1-813-248-0585
Australia 1-300-954-583
Brazil 0-800-591-6042
China 400-120-0751
India 000-800-100-4086
Mexico 01-800-099-0731

Contract number
MIS9591327

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards
Corrosive to metals
Category 1
H290 - May be corrosive to metals.

Hazard summary
May be corrosive to metals. Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms

Signal word
Warning

Hazard statements
H290
May be corrosive to metals.

Precautionary statements
Prevention
Keep only in original container.

Absorb spillage to prevent material damage.

Store in corrosive resistant container with a resistant inner liner.

Not assigned.

None.

Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>%</th>
<th>CAS-No. / EC No.</th>
<th>REACH Registration No.</th>
<th>INDEX No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>&lt; 5</td>
<td>7664-93-9</td>
<td>-</td>
<td>016-020-00-8</td>
<td>#</td>
</tr>
<tr>
<td></td>
<td></td>
<td>231-639-5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Classification: Met. Corr. 1; H290, Skin Corr. 1A; H314, Eye Dam. 1; H318, STOT SE 3; H335, Aquatic Chronic 3; H412

List of abbreviations and symbols that may be used above

#: This substance has been assigned Community workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

Skin contact: Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact: Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion: Rinse mouth. Get medical attention if symptoms occur.

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

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. May cause redness and pain.

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

Provide general supportive measures and treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing agent suitable for type of surrounding fire.

Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters: Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures: Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Local authorities should be advised if significant spillages cannot be contained. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Stay upwind. Avoid any exposure. Use personal protection recommended in Section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Do not contaminate water.

6.3. Methods and material for containment and cleaning up

Should not be released into the environment. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas.

Large Spills: Dike far ahead of liquid spill for later disposal. Absorb spillage with suitable absorbent material. Ventilate the area. Collect in containers and seal securely. Flush with plenty of water to clean spillage area.

Small Spills: Absorb spill with vermiculite or other inert material. Clean contaminated surface thoroughly. After removal flush contaminated area thoroughly with water.

Never return spills in original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid prolonged exposure. Avoid inhalation of vapors and contact with skin, eyes and clothing. Handle and open container with care. Use only with adequate ventilation. Wash thoroughly after handling. Use personal protection as recommended in Section 8 of the SDS.

7.2. Conditions for safe storage, including any incompatibilities

Assorted.

7.3. Specific end use(s)

Assorted.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid (CAS 7664-93-9)</td>
<td>TWA</td>
<td>0.05 mg/m³</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid (CAS 7664-93-9)</td>
<td>TWA</td>
<td>0.05 mg/m³</td>
<td>Mist.</td>
</tr>
</tbody>
</table>

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

General information

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection

Wear approved safety glasses or goggles.

Skin protection

- Hand protection

Wear appropriate chemical resistant gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.
- Other
  Wear appropriate chemical resistant clothing.
- Respiratory protection
  In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment.
- Thermal hazards
  Wear appropriate thermal protective clothing, when necessary.
- Hygiene measures
  Handle in accordance with good industrial hygiene and safety practices.
- Environmental exposure controls
  Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance
  Physical state: Liquid.
  Form: Liquid.
  Colour: Colourless.

Odour
  Not available.

Odour threshold
  Not available.

pH
  Not available.

Melting point/freezing point
  Not available.

Initial boiling point and boiling range
  Not available.

Flash point
  Not available.

Evaporation rate
  Not available.

Flammability (solid, gas)
  Not applicable.

Upper/lower flammability or explosive limits
  Flammability limit - lower (%): Not available.
  Flammability limit - upper (%): Not available.

Vapour pressure
  Not available.

Vapour density
  Not available.

Relative density
  Not available.

Solubility(ies)
  No data available.

Partition coefficient (n-octanol/water)
  No data available.

Auto-ignition temperature
  Not available.

Decomposition temperature
  Not available.

Viscosity
  Not available.

Explosive properties
  Not available.

Oxidising properties
  Not available.

9.2. Other information
  No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
  Stable at normal conditions.

10.2. Chemical stability
  Material is stable under normal conditions.

10.3. Possibility of hazardous reactions
  May be corrosive to metals.

10.4. Conditions to avoid
  Excessive heat.

10.5. Incompatible materials

10.6. Hazardous decomposition products
  Sulphur oxides. Produces toxic fumes.

SECTION 11: Toxicological information

General information
  Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure
  Inhalation
    Vapours may irritate throat and respiratory system and cause coughing.
  Skin contact
    No data available.
Eye contact
Ingestion
Symptoms

May cause discomfort if swallowed.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. May cause redness and pain.

11.1. Information on toxicological effects

Acute toxicity
May cause discomfort if swallowed.

Components
Species
Test results

<table>
<thead>
<tr>
<th>Test results</th>
<th>Components</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50</td>
<td>Sulfuric acid (CAS 7664-93-9)</td>
<td>Rat</td>
</tr>
<tr>
<td>LD50</td>
<td>Oral</td>
<td></td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
No data available.

Serious eye damage/eye irritation
No data available.

Respiratory sensitisation
Not classified.

Skin sensitisation
Not a skin sensitiser.

Germ cell mutagenicity
Not classified.

Carcinogenicity
Not classifiable as to carcinogenicity to humans.

Reproductive toxicity
Not classified.

Specific target organ toxicity - single exposure
Not classified.

Specific target organ toxicity - repeated exposure
Not classified.

Aspiration hazard
Not classified.

Mixture versus substance information
Not available.

No data available.

Other information
No other specific acute or chronic health impact noted.

SECTION 12: Ecological information

12.1. Toxicity
No toxicity data noted for the ingredient(s).

12.2. Persistence and degradability
The product is not biodegradable.

12.3. Bioaccumulative potential
The product is not bioaccumulating.

Partition coefficient n-octanol/water (log Kow)
No data available.

Bioconcentration factor (BCF)
Not available.

12.4. Mobility in soil
No data available.

Mobility in general
The product is water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment
Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects
The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging
Dispose of in accordance with local regulations.

EU waste code
The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information
Dispose of this material and its container to hazardous or special waste collection point. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR
UN number
UN3264
14.2. UN proper shipping name
Corrosive liquid, acidic, inorganic, n.o.s. (Sulfuric acid)

14.3. Transport hazard class(es)
Class 8
Subsidiary risk -
Label(s) 8
Tunnel No. (ADR) 80

14.4. Packing group III
14.5. Environmental hazards No.
14.6. Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

RID
14.1. UN number UN3264
14.2. UN proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (Sulfuric acid)
14.3. Transport hazard class(es)
Class 8
Subsidiary risk -
Label(s) 8
14.4. Packing group III
14.5. Environmental hazards No.
14.6. Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

ADN
14.1. UN number UN3264
14.2. UN proper shipping name Corrosive Liquid, Inorganic, N.o.s. (Sulfuric acid)
14.3. Transport hazard class(es)
Class 8
Subsidiary risk -
Label(s) 8
14.4. Packing group III
14.5. Environmental hazards No.
14.6. Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

IATA
14.1. UN number UN3264
14.2. UN proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (Sulfuric acid)
14.3. Transport hazard class(es)
Class 8
Subsidiary risk -
14.4. Packing group III
14.5. Environmental hazards No.
ERG Code 8L
14.6. Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

IMDG
14.1. UN number UN3264
14.2. UN proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Sulfuric acid)
14.3. Transport hazard class(es)
Class 8
Subsidiary risk -
Label(s) 8
14.4. Packing group III
14.5. Environmental hazards No.
Marine pollutant "EmS" F-A, S-B
14.6. Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

SECTION 15: Regulatory information

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

EU regulations

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended
  Not listed.
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended
  Not listed.
  Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA
  Not listed.

Authorisations

- Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended
  Not listed.

Restrictions on use

- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
  Not listed.
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.
  Not listed.

Other EU regulations

- Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended
  Sulfuric acid (CAS 7664-93-9)
  The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended and respective national laws implementing EC directives. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended.

Other regulations

- The product has been classified according to the legislation in force.

National regulations

- No Chemical Safety Assessment has been carried out.

15.2. Chemical safety assessment

SECTION 16: Other information

List of abbreviations

- DNEL: Derived No-Effect Level.
- PNEC: Predicted No-Effect Concentration.
- PBT: Persistent, bioaccumulative and toxic.
- vPvB: Very Persistent and very Bioaccumulative.
- LD50: Lethal Dose, 50%.
- TWA: Time weighted average.
- PEL: Permissible Exposure Limit.

References

Information on evaluation method leading to the classification of mixture

- The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
Training information

Follow training instructions when handling this material.

The information above is provided in good faith. It is believed to be accurate and represents the best information currently available to us. HOWEVER, WE MAKE NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER TYPE, EXPRESSED OR IMPLIED, WITH RESPECT TO PRODUCTS DESCRIBED OR DATA OR INFORMATION PROVIDED, AND WE ASSUME NO LIABILITY RESULTING FROM THE USE OF SUCH PRODUCTS, DATA OR INFORMATION. Users should make their own investigations to determine the suitability of the information for their particular purposes, and the user assumes all risk arising from their use of the material. The user is required to comply with all laws and regulations relating to the purchase, use, storage and disposal of the material, and must be familiar with and follow generally accepted safe handling procedures. In no event shall BioMedica Diagnostics be liable for any claims, losses, or damages of any individual or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if BioMedica Diagnostics has been advised of the possibility of such damages.