# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** Stop solution

Other means of identification

**Product code** 603, 885

**Synonyms** Stop Solution in 885; in 603

Recommended use Assorted.

**Recommended restrictions** Use in accordance with supplier's recommendations.

Manufacturer/Importer/Supplier/Distributor information

**Corporate Headquarters** BioMedica Diagnostics Inc.

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US, Canada, Puerto Rico & Virgin Islands 1-800-255-3924

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Australia 1-300-954-583 International +1-813-248-0585 China 400-120-0751 Brazil 0-800-591-6042 Mexico 01-800-099-0731 India 000-800-100-4086

7 cblf UWfibi a VYf MIS9591327

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

> Serious eye damage/eye irritation Category 2A

**OSHA** defined hazards Not classified.

Label elements



Signal word

**Hazard statement** Causes skin irritation. Causes serious eye irritation.

**Precautionary statement** 

Wash thoroughly after handling. Wear eye protection/face protection. Wear protective gloves. Prevention

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Response

Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off

contaminated clothing and wash before reuse.

Store away from incompatible materials. Storage

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

# 3. Composition/information on ingredients

# **Mixtures**

Chemical name	CAS number	%
Sulfuric acid	7664-93-9	1 - ≤ 5

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**Composition comments** 

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

center 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.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

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

cause redness and pain.

Provide general supportive measures and treat symptomatically.

**General information** 

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible).

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire.

None known.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

During fire, gases hazardous to health may be formed.

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.

Fire fighting equipment/instructions

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.

**General fire hazards**Not flammable, but reacts with most metals to form flammable hydrogen gas.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures 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.

Methods and materials 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.

**Environmental precautions** 

Do not contaminate water.

## 7. Handling and storage

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.

Conditions for safe storage, including any incompatibilities

Keep in a well-ventilated place. Keep this material away from food, drink and animal feed. Keep out of the reach of children. Use care in handling/storage.

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## 8. Exposure controls/personal protection

## Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Sulfuric acid (CAS 7664-93-9)	PEL	1 mg/m3	

**US. ACGIH Threshold Limit Values** 

Components	Туре	Value	Form
Sulfuric acid (CAS	TWA	0.2 mg/m3	Thoracic fraction.
7664-93-9)			

**US. NIOSH: Pocket Guide to Chemical Hazards** 

Components	Туре	Value	
Sulfuric acid (CAS	TWA	1 mg/m3	
7664-93-9)			

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Follow standard monitoring procedures. **Exposure guidelines** 

Appropriate engineering Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of

inhalation of vapors and mist. Provide easy access to water supply and eye wash facilities. controls

Individual protection measures, such as 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 vapors, use suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

**General hygiene** Handle in accordance with good industrial hygiene and safety practice.

considerations

# 9. Physical and chemical properties

Appearance	Clear liquid.
Physical state	Liquid.
Form	Liquid.
Color	Clear.

Odor Not available. Not available. **Odor threshold** pН Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Flash point Not available. Not available. **Evaporation rate** Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Flammability limit - upper Not available.

(%)

Not available. Vapor pressure Vapor density Not available. Relative density Not available.

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Not available.

Solubility(ies)

Solubility (water) Soluble in water. No data available. Partition coefficient

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not available. **Viscosity** 

# 10. Stability and reactivity

Stable at normal conditions. Reactivity

**Chemical stability** Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Excessive heat.

Incompatible materials Potassium chlorate. Bases. Organic material. Halogens. Metals. Strong oxidizing agents.

Reducing agents.

**Hazardous decomposition** 

products

Sulfur oxides. Produces toxic fumes.

# 11. Toxicological information

Information on likely routes of exposure

Vapors may irritate throat and respiratory system and cause coughing. Inhalation

Skin contact Causes skin irritation.

Causes serious eye irritation. Eye contact

May cause discomfort if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. May

cause redness and pain.

Information on toxicological effects

May cause discomfort if swallowed. Acute toxicity

Components **Species Test Results** 

Sulfuric acid (CAS 7664-93-9)

Acute Oral

LD50 Rat 2140 mg/kg

Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Not classified. Respiratory sensitization Skin sensitization Not a skin sensitizer. Germ cell mutagenicity Not classified.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Not classified. Reproductive toxicity Specific target organ toxicity -Not classified. single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Not classified.

**Aspiration hazard** 

No other specific acute or chronic health impact noted. **Further information** 

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# 12. Ecological information

**Ecotoxicity** No ecotoxicity data noted for the ingredient(s).

Persistence and degradability The product is not biodegradable.

Bioaccumulative potential The product is not bioaccumulating.

Mobility in soil No data available.

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

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

organisms.

## 13. Disposal considerations

**Disposal instructions** Dispose of this material and its container at hazardous or special waste collection point. Do not

allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable

regulations.

**Hazardous waste code**Waste codes should be assigned by the user based on the application for which the product was

used

Waste from residues / unused

products

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.

# 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

# 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Sulfuric acid (CAS 7664-93-9) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name CAS number Reportable Threshold Threshold Threshold Threshold Threshold

quantity planning quantity planning quantity, planning quantity,
(pounds) (pounds) lower value upper value
(pounds) (pounds)

Sulfuric acid 7664-93-9 1000 1000

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

 Chemical name
 CAS number
 % by wt.

 Sulfuric acid
 7664-93-9
 1 - ≤ 5

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#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Sulfuric acid (CAS 7664-93-9)

Safe Drinking Water Act

Not regulated.

(SDWA)

#### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

Sulfuric acid (CAS 7664-93-9)

# Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Sulfuric acid (CAS 7664-93-9) 20 %WV

**DEA Exempt Chemical Mixtures Code Number** 

Sulfuric acid (CAS 7664-93-9) 6552

#### US state regulations WARNING: This product contains a chemical known to the State of California to cause cancer. **US. Massachusetts RTK - Substance List**

Sulfuric acid (CAS 7664-93-9)

#### US. New Jersey Worker and Community Right-to-Know Act

Sulfuric acid (CAS 7664-93-9)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Sulfuric acid (CAS 7664-93-9)

#### **US. Rhode Island RTK**

Sulfuric acid (CAS 7664-93-9)

#### **US. California Proposition 65**

# US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Sulfuric acid (CAS 7664-93-9)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Yes

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United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory \*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

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NFPA ratings

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References ACGIH

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity

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