

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

Stop Reagent

of the mixture

Registration number

Synonyms None.

Product code 101201

Issue date 01-December-2017

Version number 02

Revision date 27-July-2017 Supersedes date 07-June-2015

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses SPECTROLYSE® PAI-1 is intended for the quantitative determination of Plasminogen Activator

Inhibitor Type-1 (PAI-1) activity in human plasma. For In Vitro Diagnostic use only.

Uses advised againstUse 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

Health hazards

Acute toxicity, oral Category 4 H302 - Harmful if swallowed.

Skin corrosion/irritation Category 2 H315 - Causes skin irritation.

Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

rritation.

Hazard summary Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

2.2. Label elements

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

Contains: Guanidinium chloride

Hazard pictograms

Signal word Warning

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Hazard statements

H302	Harmful if swallowed. Causes skin irritation.	
H315		

H319 Causes serious eye irritation.

Precautionary statements

Prevention

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves and eye/face protection.

Response

P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

P330 Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash 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.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage Store away from incompatible materials.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes	
Guanidinium chloride	60 - 80	50-01-1 200-002-3	-	607-148-00-0		
Classification:	Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Irrit. 2;H319					
Acetic acid	10 - 20	64-19-7 200-580-7	-	607-002-00-6	#	
Classification:	Flam. Liq. 3;H226, Skin	Corr. 1A;H314				

List of abbreviations and symbols that may be used above

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

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: "nitric acid ...%". In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

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

percent by volume.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if any discomfort

continues.

Skin contactFor skin contact flush with large amounts of water while removing contaminated clothing. Get

medical attention if irritation develops and persists.

Eye contact In case of contact, immediately flush eyes with fresh water for at least 15 minutes while holding the

eyelids open. Remove contact lenses if worn. Get medical attention if irritation persists.

Ingestion Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms

and effects, both acute and

delayed

Causes redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting.

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4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards The product is not flammable.

5.1. Extinguishing media

Suitable extinguishing

media

surrounding fire.

Unsuitable extinguishing

media

None known.

5.2. Special hazards arising

from the substance or mixture

When heated to decomposition, may produce hydrazoic acid fumes.

5.3. Advice for firefighters

Special protective

equipment for firefighters

Special fire fighting

procedures

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the

Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during

clean-up.

Use personal protection as recommended in section 8 of the SDS. For emergency responders

6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Absorb spill with vermiculite or other inert material. Dispose of waste in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

6.4. Reference to other

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

sections

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Avoid contact with skin and eyes. Wash thoroughly after handling. In case of insufficient ventilation, wear suitable respiratory equipment. Handle and open container with care.

7.2. Conditions for safe storage, including any incompatibilities

7.3. Specific end use(s)

Store at 2-8°C (35-46°F). Store in a closed container away from incompatible materials.

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Inhibitor Type-1 (PAI-1) activity in human plasma. For In Vitro Diagnostic use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Туре	Value		
Acetic acid (CAS 64-19-7)	TWA	25 mg/m3		
		10 ppm		
Biological limit values	No biological exposure limits noted for the ingredient(s).			
Pecommended monitoring	Follow standard monitoring procedure	100		

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL) Not available. Not available. Predicted no effect

concentrations (PNECs) 8.2. Exposure controls

controls

Appropriate engineering

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety

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shower.

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

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926511 Version #: 02 Revision date: 27-July-2017 Issue date: 01-December-2017 - Hand protection Wear appropriate chemical resistant gloves.

- Other Wear lab coat or other protective garments. Remove contaminated clothing promptly. 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.

Handle in accordance with good industrial hygiene and safety practices. Hygiene measures

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

Colourless liquid. **Appearance**

Physical state Liquid. Form Liquid.

Colour Colourless, clear. Odour Slightly pungent. Odour threshold Not available.

37 pН

Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Not available. Flash point **Evaporation rate** Not available. Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Not available.

Flammability limit - upper

(%)

Not available. Vapour pressure Not available. Vapour density Not available. Relative density Soluble in water. Solubility(ies)

Partition coefficient

Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity Explosive properties** Not available. Not available. Oxidizing properties

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. 10.2. Chemical stability 10.3. Possibility of hazardous Hazardous polymerisation does not occur.

reactions

10.4. Conditions to avoid Protect against direct sunlight. Strong oxidising agents. 10.5. Incompatible materials 10.6. Hazardous Hydrogen chloride gas.

decomposition products

SECTION 11: Toxicological information

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

Information on likely routes of exposure

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

Skin contact Causes skin irritation.

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Eye contact Causes serious eye irritation.

Ingestion Harmful if swallowed.

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

nausea and vomiting.

11.1. Information on toxicological effects

Acute toxicity Harmful if swallowed.

Components **Species Test results**

Acetic acid (CAS 64-19-7)

Acute Dermal

LD50 Rabbit 1060 mg/kg

Inhalation

LC50 Rat 11.4 mg/l, 4 Hours

Oral

LD50 Rat 3310 mg/kg

Guanidinium chloride (CAS 50-01-1)

Acute

Oral LD50

Rat 475 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory sensitisation Not classified. Skin sensitisation Not classified. Germ cell mutagenicity Not classified.

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

Specific target organ toxicity -

repeated exposure

Not classified.

Not classified. Aspiration hazard Mixture versus substance Not available.

information

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

SECTION 12: Ecological information

12.1. Toxicity

Components **Test results** Species

Acetic acid (CAS 64-19-7)

Aquatic

12.2. Persistence and

Crustacea EC50 Water flea (Daphnia magna) 65 mg/l, 48 hours Fish LC50 Bluegill (Lepomis macrochirus) 75 mg/l, 96 hours

No data is available on the degradability of this product.

degradability

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow)

> Acetic acid (CAS 64-19-7) -0.17

Bioconcentration factor (BCF) Not available. Not available. 12.4. Mobility in soil

The product is soluble in water. Mobility in general

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

and vPvB assessment

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The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose in accordance with all applicable regulations. 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

EU waste code

Empty containers should be taken to an approved waste handling site for recycling or disposal. Waste codes should be assigned by the user based on the application for which the product was

used.

Disposal methods/information Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Code

Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Not applicable.

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.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

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 authorization, 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.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Not listed.

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Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Acetic acid (CAS 64-19-7)

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Acetic acid (CAS 64-19-7)

Guanidinium chloride (CAS 50-01-1)

Directive 94/33/EC on the protection of young people at work

Acetic acid (CAS 64-19-7)

Other regulations

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. In the European Union this product is regulated under the In Vitro Diagnostic Medical Devices Directive (98/79/EC).

National regulations

15.2. Chemical safety assessment

Follow national regulation for work with chemical agents. No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration.

References HSDB

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

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation. H319 Causes serious eye irritation.

Training information

Disclaimer

Follow training instructions when handling this material.

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