

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product Name: Monoclonal Antibody Against Human PAI-1
Product No.: 3785
Configuration: 1 x 0.5 mg vial
Use of Substance: Laboratory Research
Manufacturer: Sekisui Diagnostics, LLC
500 West Avenue
Stamford, CT 06902 USA
Tel: (203) 602 7777
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Reagent/Component	Chemical Name	CAS Number	Percent	LD ₅₀
Monoclonal Antibody Against Human PAI-1	IgG	NA	0.1%	NA
	Sodium Phosphate, dibasic	7558-79-4	0.28%	rat, oral – 12.9 g/kg
	Sodium Chloride	7647-14-5	0.9%	rat, oral - 3000 mg/kg
	Sodium Azide	26628-22-8	0.02%	rat, oral – 45 mg/kg

3. HAZARDS IDENTIFICATION

Potential Health Hazards

Eye Contact: May cause irritation.
Skin Contact: May cause irritation.
Oral Exposure: May be harmful if swallowed.
Inhalation Exposure: May cause irritation.

4. FIRST AID MEASURES

Eye Contact: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical attention.
Skin Contact: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing.
Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Seek medical attention.
Inhalation Exposure: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen.

5. FIRE FIGHTING MEASURES

Flammability:	Boxing, instruction papers and powdered reagents are flammable.
Extinguishing Media:	Use extinguishing media appropriate to the surrounding fire conditions, such as carbon dioxide, dry chemical powder or foam.
Fire Fighting Instructions:	Wear self-contained breathing apparatus and protective clothing appropriate for fighting a fire involving chemical materials to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. In case of skin contact, flush with copious amounts of water and remove contaminated clothing.
Environmental Precautions:	Do not empty into drains.
Methods For Cleaning Up:	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling:	Avoid inhalation. Avoid contact with eyes, skin and clothing.
Storage:	The product is stable until the expiration date stated on its labeling when stored at 2°-8°C.
Safety:	As no known test method can provide complete assurance that products derived from animals will not transmit infectious pathogens, this reagent should be handled as recommended for any potentially infectious human specimen.
Hygienic Practice:	Wash hands with soap and water following use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	TLV/TWA:	0.1 mg/m ³ for sodium azide
	TLV/STEL:	0.3 mg/m ³ for sodium azide
	TLV-Ceiling	0.29 mg/m ³ for sodium azide
	US OSHA PEL FINAL-CL:	0.3 mg/m ³ (skin) for sodium azide
Eye/Face Protection:	Chemical safety goggles.	
Hand Protection:	Compatible chemical resistant gloves.	
Respiratory Protection:	NIOSH (USA) or CEN (EU) approved respirator. Mechanical exhaust required.	
Skin Protection:	Compatible chemical resistant gloves and other protective clothing as required to prevent skin contact.	
General Hygiene Practices:	Wash promptly if skin comes into contact with product. Wash thoroughly after handling. Remove any clothing that comes into contact with the product. Do not smoke or eat in the work environment.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	white, lyophilized powder
Odor:	N/A
pH:	N/A
Freezing Point:	N/A
Vapor Pressure:	N/A
Specific Gravity:	N/A
Solubility:	water-soluble
Evaporation Rate:	N/A
Viscosity:	N/A
Surface Tension:	N/A
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Lower Explosive Limit:	N/A
Upper Explosive Limit:	N/A
Flammability:	N/A
Autoignition Temp:	N/A

N/A = not available

10. STABILITY AND REACTIVITY

Stability:	Stable.
Incompatible Materials:	Strong oxidizing reagents.
Hazardous Decomposition Products:	Sodium azide may form explosive compounds with copper and lead plumbing. On disposal, flush with large volumes of water.
Hazardous Polymerization:	Does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	See Section 2
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The health effects noted above are based on the extrapolation of data on the pure product ingredients. To the best of our knowledge, no health effects have been identified for the product mixture under normal conditions of use, although the health effects of the product have not been thoroughly investigated.

Medical Conditions Aggravated By Exposure:	None known.
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12. ECOLOGICAL INFORMATION

Use in accordance with good laboratory practices. Do not waste into the environment.

Toxicity to fish (sodium azide)	LC50, bluegill fish = 0.7 mg/L, 96 hours
Toxicity to daphnia pulex (sodium azide)	EC50, daphnia = 4.2 mg/L, 96 hours
Toxicity to algae (sodium azide)	ErC50 Not Available

13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material. Disposal should be made in accordance with existing disposal practices employed for infectious waste at your institution. Observe all federal, state and local environmental regulations and laws.

This product is classified as harmful (biological material).

14. TRANSPORT INFORMATION

DOT:	Proper Name For Shipping: Non-hazardous for air transport
IATA/ICAO	Proper Name For Shipping: Non-hazardous for air transport
ADR (road):	Proper Name For Shipping: Non-hazardous for air transport
RID (rail):	Proper Name For Shipping: Non-hazardous for air transport

15. REGULATORY INFORMATION

This product is classified and labeled in accordance with Directive 1999/45/EC and the following modifications. The health hazard classification has been determined based upon the composition and hazard data of each ingredient. Physical and health hazard information on the reagent mixture has not been determined. Any physical and health hazard information noted is based on a) evaluation of data of the pure ingredient and b) the concentration of each ingredient.

OSHA Hazard

Mild skin irritant, Mild eye irritant

Hazard Classification

EC Symbol:	Xn (Harmful)
Risk Code:	R22 (Harmful if swallowed)
Safety:	S46 (Seek medical advice immediately if swallowed)
	S24/25 (Avoid contact with skin and eyes)

16. OTHER INFORMATION

The information supplied in this Material Safety Data Sheet represents the data and best information available on the date of preparation. It is provided to allow for the proper and safe use, storage, transport and disposal of the product. It is not to be considered as a warranty, guarantee or specification of the product quality. It is related to the materials specifically indicated and does not apply if these are used in combination with other materials or during processes not indicated in the text of this safety data sheet.

Sekisui Diagnostics, LLC shall not be held liable for any damage resulting from handling or from contact with the above product.