

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

1.1 Product Name: **HEPTEST®**

830 1.2 Product REF:

1.3 Configuration: Twelve (12) vial set of reagents

1.4 Use of Product: For In Vitro Diagnostic Use

Sekisui Diagnostics, LLC American Diagnostica GmbH 1.5 Company Manufacturer: Distributor EU:

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HAZARDS IDENTIFICATION

2.1 Classification: Xi, Irritant, R21/22, R50/53

2.2 Potential Health and Environmental Effects

Skin Exposure: May be harmful.

May cause eye irritation. Eye Exposure:

Inhalation Exposure: May be harmful.

Very harmful if swallowed. Ingestion:

Environmental Exposure: Might cause adverse effects to the environment.

COMPOSITION/INFORMATION ON INGREDIENTS

| Reagent/Component | Chemical Name | CAS No. | EINECS No./ EC No. | Concentration, w/v, % |
|-------------------|-----------------------|------------|-----------------------|-----------------------|
| Recalmix® | Calcium Chloride | 10043-52-4 | 233-140-8 | < 10.0% |
| | Rabbit Brain Cephalin | | NA | < 10.0% |
| | Bovine Plasma | NA | NA | 100% |
| Bovine Factor Xa | Bovine Factor Xa | 9002-05-5 | 3.4.21.6 | < 1.0% |
| | Tris-Maleate | 72200-76-1 | 276-455-6 | 6.0% |
| | Sodium Chloride | 7647-14-5 | 231-598-3 | 1.0% |
| | Polyethylene Glycol | 25322-68-3 | NA | 1.0% |
| | Glycine | 56-40-6 | 200-272-2 | < 1.0% |
| | D-Mannitol | 69-65-8 | 200-711-8 | 1.8% |

FIRST AID MEASURES

Skin Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove

contaminated clothing. Seek medical attention if adverse symptoms appear.



Eye Exposure: 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 if adverse

symptoms appear.

Inhalation Exposure: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult,

administer oxygen and seek medical attention.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Seek medical attention if

adverse symptoms appear.

5. FIRE FIGHTING MEASURES

Flammability: Solutions are non-flammable. Boxing and instruction papers are flammable.

Suitable Extinguishing Media: Use extinguishing media appropriate to the surrounding fire conditions, such as carbon dioxide, dry

chemical powder, foam or water spray.

Unsuitable Extinguishing Media: None known.

Equipment for fire fighting: 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 let the product enter the drainage system.

Methods For Cleaning Up: Soak up with inert absorbent material, place in a bag and hold for waste disposal. Wash spill site

after material pickup is complete.

7. HANDLING AND STORAGE

7.1 Handling

Handling Procedure: Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Provide

adequate ventilation in all work areas.

Safety: This product contains animal source material. As no known test method can provide complete

assurance that products derived from animal specimens will not transmit blood-borne pathogens, this reagent should be handled as recommended for any potentially infectious human specimen.

Hygienic Practice: Wash hands with soap and water following use.

7.2 Storage

Container: Keep container tightly closed and labeled with the name of the product.

Recommended Temperature: 2°-8°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Limit Values

TWA: 10 mg/m³ for Polyethylene Glycol per WEEL



8.2 Personal Protection

Respiratory Protection: Respirator protection is not required. Where protection is desired, use type N95 (US) or type P1

(EN 143) dust masks or for higher level protection, use NIOSH (USA) or CEN (EU) approved

respirators and filters.

Eye Protection: Chemical safety goggles.

Hand Protection: Compatible chemical resistant gloves. Use proper glove removal technique to avoid skin contact.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory

practices.

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

| Property | Recalmix | Bovine Factor Xa | |
|-----------------------|---------------|------------------|--|
| Appearance | white power | white power | |
| Odor | None | None | |
| pH | NA | NA | |
| Freezing Point | NA | NA | |
| Vapor Pressure | NA | NA | |
| Specific Gravity | NA | NA | |
| Solubility | water soluble | water soluble | |
| Evaporation Rate | NA | NA | |
| Viscosity | NA | NA | |
| Surface Tension | NA | NA | |
| Boiling Point | NA | NA | |
| Melting Point | NA | NA | |
| Flash Point | NA | NA | |
| Lower Explosive Limit | NA | NA | |
| Upper Explosive Limit | NA | NA | |
| Flammability | NA | NA | |
| Autoignition Temp. | NA | NA | |

NA = not available

10. STABILITY AND REACTIVITY

10.1 Stability: The product is stable until the expiration date stated on its label when properly stored at 2°-8°C.

10.2 Conditions To Avoid: Keep away from heat.

10.3 Materials To Avoid: Strong acids, strong reducing agents, strong oxidizing reagents.

10.4 Hazardous Decomposition Hazardous decomposition products due to combustion may include carbon monoxide, carbon

Products: dioxide, and nitrogen oxides.



11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

| Reagent/ | | | | |
|-----------|-----------------------|-----------------------|--------------------------------------|-------------------------|
| Component | Chemical Name | Oral LD ₅₀ | Inhalation LC ₅₀ | Dermal LD ₅₀ |
| Recalmix | Calcium Chloride | rat, 1,000 mg/kg | No Data Available | No Data Available |
| | Rabbit Brain Cephalin | No Data Available | No Data Available | No Data Available |
| | Bovine Plasma | No Data Available | No Data Available | No Data Available |
| Bovine | Bovine Factor Xa | No Data Available | No Data Available | No Data Available |
| Factor Xa | Tris-Maleate | No Data Available | No Data Available | No Data Available |
| | Sodium Chloride | No Data Available | rat, 1 hr, >42,000 mg/m ³ | rabbit, >10,000 mg/kg |
| | Polyethylene Glycol | rat, > 50,000 mg/kg | No Data Available | rabbit, > 20,000 mg/kg |
| | Glycine | rat, 7,930 mg/kg | No Data Available | No Data Available |
| | D-Mannitol | rat, 13,500 mg/kg | No Data Available | No Data Available |

NA - Not Available

11.2 Irritation

Skin: No Data Available

Eye: Severe eye irritation in rat (from Calcium Chloride)

Inhalation: No Data Available

11.3 Sensitization

Skin: No Data Available
Inhalation: No Data Available

11.4 Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.

11.4 Mutagenicity

No data available

11.4 Teratogenicity

No data available

For the other components of this product, 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.

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Toxicity to fish (Calcium Chloride) LC50, Lepomis macrochirus – 10,650 mg/L, 96 hours

Toxicity to daphnia (Calcium Chloride) EC50, Daphnia magna (water flea) – 52 mg/L, 48 hours EC50, Daphnia magna (water flea) – 1,661 mg/L, 48 hours

Toxicity to daphnia (Sodium Chloride) Mortality NOEC, daphnia – 1,500 mg/L, 7 days

12.2 Mobility: No Data Available

12.3 Persistence and degradability No Data Available

degradability:



12.4 Bioaccumulative potential: No Data Available
12.5 PBT assessment: No Data Available
12.6 Other adverse effects: No Data 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.

14. TRANSPORT INFORMATION

DOT (US): Not classified as dangerous goods

IATA: Not classified as dangerous goods

IMDG: Not classified as dangerous goods

15. REGULATORY INFORMATION

This product is classified and labeled in accordance with Directives 1999/45/EC and 67/548/EEC. 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.

Hazard Classification

EC Symbol: Xi Indication of Danger: Irritant

Risk Code: R21/22, R51/53

Safety Code: S24/25, S26, S37/39, S46

Hazard Code: H302, H303, H316, H318, H319, H401, H402

OSHA Hazards: Calcium Chloride is harmful by ingestion.

SARA 302 Components: No chemicals in this product are subject to the reporting requirements of SARA Title III, Section

302.

SARA 313 Components: This product does not contain any chemical components with known CAS numbers that exceed the

threshold reporting levels by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard (Calcium Chloride).

California Prop 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth

defects or any other reproductive harm.

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 and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.