



SAFETY DATA SHEET

KPS-1® Kidney Perfusion Solution

Section 1: Identification

Product Name: KPS-1 Kidney Perfusion Solution
Chemical Name/Synonyms: UW Machine Perfusion Solution
Company: Organ Recovery Systems, Inc.
 One Pierce Place, Suite 475W
 Itasca, IL 60143

In emergency, call 911.
For information about this SDS, call 847-824-2600.

Section 2: Hazard(s) Identification

This product is not classified as hazardous according to Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and US Regulation 29 CFR 1910.1200.

Hazardous Ingredients including Paints, Preservatives and Solvents: Not applicable
Hazardous Ingredients including Alloys and Metallic Coatings: Not applicable
Hazardous Mixtures of other Liquids, Solids or Gases: None Identified

Section 3: Composition/ Information on Ingredients

Chemical Family: Mixture of Salts and Carbohydrates

Ingredients:

Chemical Name	CAS#	Concentration
Calcium Chloride (dihydrate)	10035-04-8	0.068 g/L
Sodium Hydroxide	1310-73-2	0.70 g/L
HEPES (free acid)	7365-45-9	2.38 g/L
Potassium Phosphate (monobasic)	7778-77-0	3.4 g/L
Mannitol	69-65-8	5.4 g/L
Glucose, Beta D (+)	50-99-7	1.80 g/L
Sodium Gluconate	527-07-1	17.45 g/L
Magnesium Gluconate	3632-91-5	1.13 g/L
Ribose, D (-)	50-69-1	0.75 g/L
Hydroxyethylstarch (Pentafraction)	9005-27-0	50.0 g/L
Glutathione (reduced form)	70-18-8	0.92 g/L
Adenine (free base)	73-24-5	0.68 g/L
Water for Injection (WFI)	7732-18-5	QS



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Section 4: First-Aid Measures

In case of skin contact: Wash immediately with soap and water. Get medical attention if irritation develops and persists.

In case of eye contact: Rinse immediately with water. Get medical attention if irritation develops and persists.

In case of ingestion: Clean mouth with water and drink plenty of water. If you feel unwell, seek medical advice. Do not induce vomiting without medical advice.

If inhaled: No special precautions required.

Most important symptoms and effects: No information available.

Notes to physician: No information available.

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: Water spray, dry powder, foam

Special protective equipment for firefighters: No information available.

Section 6: Accidental Release Measures

Personal precautions: Use appropriate personal protective equipment.

Measures for environmental protection: Prevent product from entering drains.

Measures for cleaning/collecting: Contain spillage and collect with non-combustible, absorbent material for disposal according to local / national regulations.

Section 7: Handling and Storage

Handling: No special precautions required.

Storage: Store indoors at temperatures between 2°C and 25°C (36°F and 77°F.) The solution should not be frozen or exposed to excessive heat (temperatures exceeding 51°C / 124°F). It should also be stored in a dry place away from direct sunlight.

Section 8: Exposure Controls/Personal Protection

This product contains no substances with occupational exposure limit values.

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Section 9: Physical and Chemical Properties

Form: Aqueous solution
Odor: Odorless
Odor threshold: No data available
pH: 7.3- 7.5
Melting point/melting range: No data available
Boiling point/boiling range: 100°C (212°F)
Flash point: No data available
Evaporation rate: No data available
Flammability: No data available
Upper/lower flammability or explosive limits: No data available
Auto ignition temperature: No data available
Danger of explosion: No data available
Vapor pressure: No data available
Vapor density: No data available
Relative density: No data available
Solubility in/Miscibility with water: Soluble

Section 10: Stability and Reactivity

Reactivity: Stable under normal conditions
Chemical stability: No data available
Conditions to avoid: No data available
Incompatible materials: Strong oxidizing agents
Hazardous decomposition products: No hazardous decomposition when stored normally.

Section 11: Toxicological Information

No component in this product present at levels greater than or equal to 0.1% is identified as toxic, carcinogenic, mutagenic or sensitizing.

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: No data available
Mobility: No data available
Biodegradation: No data available
Bioaccumulation: No data available

Section 13: Disposal Considerations (non-mandatory)

Dispose of in accordance with local and national regulations.

Section 14: Transport Information (non-mandatory)

No data available.

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Section 15: Regulatory Information (non-mandatory)

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

See above: SECTION 2. Hazard identification-GHS Classification

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This product does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOCs (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act, Section 307.

Section 16: Other Information

SDS date of preparation/update: 13 MAY 2024

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.