

## Material Safety Data Sheet – InSight V-CHEM Liver & Renal Panel

### Section 1 – Product and Company Identification

**Manufacturer:** Woodley Equipment Company Ltd.

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**Product Name:** InSight V-CHEM Liver & Renal Panel

**Packaging Specification:** 1 Disc/Sample.

**Product Description:** Solid spherically lyophilised beads are enclosed in a sealed, plastic packaging.

The Liver and Renal Panel, used with the InSight V-CHEM Chemistry Analyser, is intended to be used for the in vitro quantitative determination of total Protein (TP), albumin (ALB), total bilirubin (TBIL), alanine aminotransferase (ALT), aspartate aminotransferase (AST), gamma glutamyl transferase (GGT), blood urea nitrogen (BUN), creatinine (CRE) and glucose (GLU) in heparinised whole blood, heparinised plasma or serum in a clinical laboratory setting or point of care location.

### Section 2 – Composition/Information on Ingredients

| Material Name                                               | CAS No.    | Character                  |
|-------------------------------------------------------------|------------|----------------------------|
| 2,4,6- Tribromo-3- hydroxybenzoic acid                      | 14348-40-4 | White crystal              |
| 4-Aminoantipyrine hydrochloride                             | 22198-72-7 | Yellowish powder           |
| ADP potassium salt                                          | 72696-48-1 | White Powder               |
| D- trehalose                                                | 6138-23-4  | White Powder               |
| D-Lactate dehydrogenase                                     | 1.1.1.28   | Yellow suspension          |
| D- sorbitol                                                 | 50-70-4    | Yellow liquid              |
| L-r- Glutamyl-3- carboxy-4- nitroaniline                    | 63699-78-5 | Yellowish powder           |
| L- Alanine                                                  | 56-41-7    | White Powder               |
| L- Aspartic acid                                            | 56-84-8    | White Powder               |
| NADH                                                        | 58-68-4    | White Powder               |
| NADP Sodium salt                                            | 53-59-8    | White Powder               |
| N- Tris( hydroxymethyl) methyl-3 -aminopropanesulfonic acid | 29915-38-6 | White Powder               |
| Polyethylene glycol                                         | 25322-68-3 | Transparent viscous liquid |
| Thesit                                                      | 9002-92-0  | Clear oily liquid          |
| Triton X-100                                                | 9002-93-1  | Liquid                     |

|                                             |             |                            |
|---------------------------------------------|-------------|----------------------------|
| $\alpha$ -ketoglutaric acid                 | 328-50-7    | White Powder               |
| Bilirubin oxidase                           | 1.3.3.5     | White Powder               |
| cholic acid                                 | 81-25-4     | White Powder               |
| Sodium cholate                              | 361-09-1    | White Powder               |
| Potassium iodide                            | 7681-11-0   | White Powder               |
| Glycylglycine                               | 556-50-3    | White Powder               |
| D- Mannitol                                 | 69-65-8     | White powder               |
| Glutamate dehydrogenase                     | 1.4.1.3     | White Powder               |
| Peroxidase                                  | 1.11.1.7    | Reddish-brown powder       |
| Sarcosine oxidase                           | 1.5.3.1     | Yellow powder              |
| Inositol                                    | 87-89-8     | White Powder               |
| Creatininase                                | 3.5.2.10    | White powder               |
| Creatinase                                  | 3.5.3.3     | White powder               |
| Hexokinase                                  | 2.7.1.1     | White powder               |
| Potassium sodium tartrate $\cdot 4H_2O$     | 6381-59-5   | White powder               |
| Polyoxyethylene(23) lauryl ether            | 9002-92-0   | Transparent oily liquid    |
| Polyethylene glycol 3350                    | 25322-68-3  | Transparent viscous liquid |
| Polyethylene glycol 8000                    | 25322-68-3  | Transparent viscous liquid |
| Polyvinylpyrrolidone                        | 9003-39-8   | White powder               |
| Ascorbase                                   | 1.10.3.3    | Light blue powder          |
| Magnesium sulfate                           | 7487-88-9   | White powder               |
| Potassium chloride                          | 7447-40-7   | White powder               |
| Sodium chloride                             | 7647-14-5   | White powder               |
| Urease                                      | 3.5.1.5     | White powder               |
| Citrate                                     | 77-92-9     | White powder               |
| Trisodium citrate dihydrate compound        | 114456-61-0 | White powder               |
| Bovine Serum Albumin                        | 9048-46-8   | White powder               |
| Piperazine-N,N- bis(2- ethanesulfonic acid) | 5625-37-6   | White powder               |
| Malate dehydrogenase                        | 1.1.1.37    | White powder               |
| Dextran 10000                               | 9004-54-0   | White powder               |
| Dextran 40000                               | 9004-54-0   | White powder               |
| Glucose-6-phosphate dehydrogenase           | 1.1.1.49    | White powder               |
| Sodium hydroxide                            | 1310-73-2   | White powder               |
| Adenosine triphosphate (ATP)                | 51963-61-2  | White powder               |
| Trometamol                                  | 77-86-1     | White powder               |
| Starch soluble                              | 9005-84-9   | White solid                |
| Sodium carbonate                            | 497-19-8    | White powder               |
| Copper sulfate pentahydrate                 | 7758-99-8   | Blue solid                 |
| Bromocresol green                           | 76-60-8     | Yellow solid               |
| Potassium ferrocyanide                      | 13943-58-3  | Yellow crystal             |

|                                 |         |              |
|---------------------------------|---------|--------------|
| Ethylenediaminetetraacetic acid | 60-00-4 | White powder |
| Sucrose                         | 57-50-1 | White powder |

### Section 3 – Hazard Identification

**Classification:** Not a hazardous substance or mixture.

**Hazard Statement(s):** Not a hazardous substance or mixture.

### Section 4 – First Aid Measures

**Eye Contact:** Flush open eye under running water for 15 minutes or longer. If pain or irritation occurs, seek medical attention immediately.

**Skin Contact:** Wash contacted skin with soap and water. Remove contaminated clothing. If pain or irritation occurs, seek medical attention immediately.

**Ingestion:** Rinse mouth with water and seek medical attention immediately.

**Inhalation:** Move to a place with fresh air. If pain or irritation occurs, seek medical attention immediately.

### Section 5 – Fire Fighting Measures

**Extinguishing Media:** Water spray, foam, carbon dioxide and dry chemical powder.

**Special Hazards Arising from the Chemical:** The product itself is not flammable but its packaging and surroundings may be combustible, and will release harmful gas or smoke when burning.

**Protective Equipment:** Wear self-contained breathing apparatus and full protective tools. Extinguish fire upwind, do not inhale gas or smoke. If it is safe to do so, remove the container from the fire area.

## Section 6 – Accidental Release Measures

**Personal Precautions:** No special protection for the product is required.

**Measures for Environmental Protection:** Avoid the product entering the sewer or water resources.

**Measures for Containment and Cleaning:** Collect and sort out the leaked materials and handle them together.

## Section 7 – Handling and Storage

**Handling:** Avoid damage and stay away from high temperatures. Wear disposable gloves during operation. Wash hands after operation.

**Storage:** Refrigerated storage at +2°C to +8°C. Avoid sunlight, keep dry and sealed. Do not store in an environment exceeding +32°C.

## Section 8 – Exposure Controls and Personal Protection

**Occupational Exposure Limits (OEL):** Data not available.

**Control Parameters:** Data not available.

**Monitoring Method:** Data not available.

**Appropriate Engineering Controls:** No specialised engineering controls are required for typical handling and use. Maintain natural ventilation in work areas.

**Personal Protective Equipment:** Safety glasses, protective gloves and protective work clothing are recommended.

## Section 9 – Physical and Chemical Properties

**Physical State:** Solid.

**Odour:** Not available.

**Odour Threshold:** Not available.

**pH:** Not available.

**Melting Point/Freezing Point:** Not available.

**Density:** Not available.

**Specific Gravity:** Not available.

**Internal Boiling Point/Boiling Range:** Not available.

**Flash Point:** Not available.

**Evaporation Rate:** Not available.

**Flammability:** Not available.

**Upper Explosive Limit % (V/V):** Not available.

**Lower Explosive Limit % (V/V):** Not available.

**Vapour Pressure/Density:** Not available.

**Relative Density (Water=1):** Not available.

**Solubility(ies):** Not available.

**Partition Coefficient (n-octanol/water):** Not available.

**Ignition Temperature:** Not available.

**Decomposition Temperature:** Not available.

**Molecular Weight:** Not available.

## Section 10 – Stability and Reactivity

**Stability:** Stable under normal ambient storage and handling temperatures.

**Distribution of Ban:** Not available.

**Conditions to Avoid:** Not available.

**Hazardous Decomposition Products:** Not available.

**Hazardous Polymerisation:** Will not occur.

## Section 11 – Toxicological Information

**Acute Toxicity:** Not available.

**Sub-acute and Chronic Toxicity:** No known significant effects or critical hazards.

**Skin Corrosion/Irritation:** No known significant effects or critical hazards.

**Serious Eye Damage/Irritation:** No known significant effects or critical hazards.

**Sensitisation:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Reproductive Toxicity:** No known significant effects or critical hazards.

**Potential Health Effects:** No known significant effects or critical hazards.

## Section 12 – Ecological Information

**Ecotoxicity:** No data available.

**Biodegradable:** No data available.

**Non-biodegradable:** No data available.

**Bioconcentration or Biological Accumulation:** No data available.

**Other Harmful Effects:** No known significant effects or critical hazards.

## Section 13 – Disposal Considerations

Dispose of the used reagent discs as medical waste. Unused but expired reagents should be handled in small quantities as hazardous chemicals. Do not dispose of it into household waste or drainage systems.

Polluted packaging materials should be treated as medical waste.

## Section 14 – Transport Information

**UN Number:** Not regulated as dangerous goods.

**UN Proper Shipping Name:** Not regulated as dangerous goods.

**Hazard Class:** Not regulated as dangerous goods.

**Packing Group:** Not regulated as dangerous goods.

**Environmental Hazards:** None.

**Special Precautions for User:** No information available.

## Section 15 – Regulatory Information

This Safety Data Sheet (SDS) was prepared according to Regulation (EC) No.1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) No. 2020/878 and UN GHS (the 10th revised edition).

### **Safety, Health & Environmental Regulations/Legislation Specific for the Substance or Mixture:**

No information available.

### **Chemical Safety Assessment:**

For this product a chemical safety assessment was not carried out.

## Section 16 – Other Information

To the best of our knowledge, the information provided herein is accurate but does not purport to be all inclusive. It is intended to provide a general guidance in terms of safe handling, storage and disposal of materials. Woodley Equipment Company thus assumes no liabilities for any damage or loss resulting from handling or from contact with this product. Contact Woodley Equipment Company if additional information is needed.

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