

## Material Safety Data Sheet

According to 1907/2006/EC, Article 31

Date:20170101

### Section 1 Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier:

1.1.1 Product identifier

Trade name: Diluent for hemocyte analysis

**Main Compositions:** Buffer, Antibacterial agents, sodium sulfate.

1.1.2 Other means of identification:

REF No:

Specification 1: 5L

Specification 2: 10L

Specification 3: 15L

Specification 4: 20L

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

1.2.1 Relevant identified uses: For In Vitro Diagnostic Use Only

1.2.2 Uses advised against: Not available

1.3 Details of the supplier of the safety data sheet:

Manufacture/Supplier: Kapitol Group International Ltd.

E-Mail: [sales@kapitol-group.com](mailto:sales@kapitol-group.com)

Information contact: No.154 .Sec 1 Xinnan Rd, Lujhu Dist., Taoyuan City,33858, Taiwan (R.O.C)

TEL:+886-3-3227755 FAX:+886-3-3214953

National contact: Well Kang Ltd.

The Black Church, St. Mary's Place, Dublin 7, Ireland

Tel: +353(1)4433560 Fax: +353(1)6864856

1.4 Emergency telephone number: +886- 3 33227755

Available 24 hours? Yes

### Section 2 Hazards Identification

2.1 Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions of Directive 1999/45/EC and Regulation (EC) 1272/2008. However the product requires a safety data sheet as it contains a substance for which there are workplace exposure limits set by the European Community.

2.2 Label elements

The product does not require any hazard warnings according to Regulation (EC) 1272/2008

Hazard pictograms: Not applicable

Signal word: Not applicable

Hazard statements: Not applicable

2.3 Other hazards

No

### Section 3 Composition/Information on Ingredients

Substance/Mixture: Mixture

CAS No	EC No	Index No	REACH No	concentration	Name
--------	-------	----------	----------	---------------	------

7757-82-6	231-820-9	-	-		<u>sodium sulfate</u>
-----------	-----------	---	---	--	-----------------------

#### Section 4 First Aid Measures

##### 4.1 Description of first aid measures:

- 4.1.1 In case of inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. After inhalation Supply fresh air; consult doctor in case of symptoms.
- 4.1.2 In case of skin contact: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- 4.1.3 In case of eyes contact: Rinse the affected eye with widely spread lids for 15 minutes under running water whilst protecting the unimpaired eye.
- 4.1.4 In case of ingestion: Get medical aid. Wash mouth out with water. After swallowing In case of persistent symptoms consult doctor.

##### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available

##### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### Section 5 Fire-Fighting Measures

5.1 Extinguishing media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

5.2 Special hazards arising from the substance or mixture: No further relevant information available.

5.3 Advice for fire-fighters: As in any fire, wear a self contained breathing apparatus in pressure demand,

#### Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

- 6.1.1 For non-emergency personnel: Wear gloves and respirator to avoid direct contact with the leakage of fluid. Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions Carefully sweep up, gather and remove. Avoid rising dust. Afterwards ventilate area and wash spill site.
- 6.1.2 For emergency responders:  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.
- 6.2 Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- 6.3 Methods for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections: Refer to section 8 of the SDS.
- 6.5 Additional information: Not available.

#### Section 7 Handling and Storage

##### 7.1 Precautions for safe handling:

- 7.1.1 Protective measures: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material. Keep tightly closed when not in use. Since emptied containers retain product residue, follow label warnings even after container is emptied. Do not reuse container. Use only with adequate ventilation.
- 7.1.2 Advice on general occupational hygiene: Do not eat, drink or smoke when using this product. Wash hands

thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Store only in original container. Refer to the package insert or product label for additional information on storage conditions.

Further information on storage conditions: Refer to product label. Protect from heat and direct sunlight.

Advice on common storage: No materials to be especially mentioned.

Other data: No decomposition if stored and applied as directed.

## 7.3 Specific end use(s): The mixture is intended specifically for in vitro diagnostic use Handle in accordance with good laboratory practice (GLP), while also considering the risks deriving from the materials under analysis.

## Section 8 Exposure Controls/Personal Protection

### 8.1 Control parameters:

#### 8.1.1 Occupational exposure limits:

Components (Chemical Name)	EC No	CAS No	Occupational exposure limit value
<a href="#">sodium sulfate</a>	231-820-9	7757-82-6	Not available.-

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

### 8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Use adequate ventilation to keep airborne concentrations low.

#### 8.2.2 Personal protective equipment:

8.2.2.1 Eye/face protection: Protective eyeglasses or chemical safety goggles should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

8.2.2.2 Skin protection: Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Remarks: *The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.*

Body protection: Protective clothing with elasticized cuffs and closed neck. Boots made of PVC.

8.2.2.3 Respiratory protection: Make sure workplace is well ventilated otherwise use a suitable respirator.

8.2.3 Environmental exposure controls: Avoid discharge into the environment. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## Section 9 Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Colourless
Odour:	No data available
Odour threshold:	No data available
pH:	7.0
Melting point/range (°C):	No data available
Boiling point/range (°C) :	No data available
Decomposition temperature(°C):	No data available
Flash point (°C) :	No data available
Ignition temperature (°C) :	No data available
Vapour pressure (20°C) :	No data available

Vapour density:	No data available
Density(g/cm <sup>3</sup> ):	No data available
Relative density:	No data available
Water solubility (g/l) at 20°C :	No data available
	No data available
Solubility(ies):	
Partition coefficient	No data available
n-Octanol/Water (log Po/w) :	No data available
Viscosity, dynamic (20 °C) :	No data available

## 9.2 Physical hazards:

Explosives	Not available
Flammable gases	Not available
Flammable aerosols	Not available
Oxidising gases	Not available
Gases under pressure	Not available
Flammable liquids	Not available
Flammable solids	Not available
Self-reactive substances and mixtures	Not available
Pyrophoric liquids	Not available
Pyrophoric solids	Not available
Self-heating substances and mixtures	Not available
Substances or mixtures which, in contact with water emit flammable gases	Not available
Oxidising liquids	Not available
Oxidising solids	Not available
Organic peroxides	Not available
Metal corrosion	Not available

## 9.3 Other safety information:

Limiting oxygen concentration	Not available
Bulk density	Not available
Solubility in different media	Not available
Stability in organic solvents and identity of relevant degradation products	Not available
Evaporation rate	Not available
Conductivity	Not available
Surface tension	Not available
Dissociation constant in water (pKa)	Not available
Oxidation-reduction Potential	Not available
Fat solubility (solvent – oil to be specified)	Not available

## Section 10 Stability and Reactivity

10.1 Reactivity: Stable under recommended transport or storage conditions.

10.2 Chemical stability: Stable under recommended temperatures and pressures.

10.3 Possibility of hazardous reactions: No data available.

10.4 Conditions to avoid: Heat,boiling temperatures

10.5 Incompatible materials: Acids, Acid chlorides, Strong oxidizing agents.

10.6 Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions-- Oxides of sulfur, sodium oxide.

Other decomposition products: no data available.

**Section 11 Toxicological Information**

11.1 Toxic kinetics, metabolism and distribution: Not available.

11.2 Information on toxicological effects:

Acute toxicity:

	Parameter	Animal species	Data
Mixture	No data available		
sodium sulfate (100%7757-82-6)	LD-50 (oral)	rat	5989mg/kg
	LD-50 (dermal)	rabbit	Not available.
	LC-50 4-hour (inhalation)	rat	Not available.

Skin corrosion/Irritation: No specific data.

Serious eye damage/irritation: No specific data.

Respiratory or skin sensitization: No specific data.

Carcinogenicity: No known significant effects or critical hazards.

Germ cell mutagenicity: No specific data.

Reproductive toxicity: No specific data.

STOT- single exposure: No specific data.

STOT-repeated exposure: No specific data.

Aspiration hazard: No specific data.

**Section 12 Ecological Information**

12.1 Toxicity:

	Parameter	Animal species	Time of exposure	Data
Mixture	No data available			
Hazardous component (100%)	LD-50	Fish	96 hours	No data available
	ED-50	Shellfish	48 hours	No data available

12.2 Persistence and degradability: No data available.

12.3 Bioaccumulative potential: No data available.

12.4 Mobility in soil: No data available.

12.5 Results of PBT&amp;vPvB assessment: No data available.

12.6 Other adverse effects: No data available.

**Section 13 Disposal Considerations**

13.1 Waste treatment methods: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. T

Contaminated packaging: Please refer to applicable local regulations.

Do not re-use empty containers.

13.1.1 Product / Packaging disposal:

Hazardous waste according to Waste Catalogue Ordinance (AVV): 18 01 06\* chemicals consisting of or containing dangerous substances.

13.2 Additional information:

Hazardous waste: No data.

**Section 14 Transport Information**

ADR: Not dangerous goods  
IMDG: Not dangerous goods  
ICAO: Not dangerous goods  
Special precautions for use: Not applicable.  
Application for IATA DGRT 58th Edition for transportation

#### Section 15 Regulatory Information

##### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REGULATION (EC) No 689/2008: No components of this mixture are subject to the REGULATION (EC) No 689/2008.

DIRECTIVE 96/82/EC: No components of this mixture are subject to the DIRECTIVE 96/82/EC.

DIRECTIVE 2008/105/EC: No components of this mixture are subject to the DIRECTIVE 2008/105/EC.

REGULATION (EC) No 850/2004: This mixture does not contain any persistent organic pollutants.

REGULATION (EC) No 2037/2000: This mixture does not contain any components that deplete the ozone layer.

National regulations (Germany):

Water Hazard Classes: No Water Hazard Classes.

Technical Instructions on Air Quality Control (TA-Luft): This mixture does not contain any hazardous air pollutants.

##### 15.2 Chemical Safety Assessment: N/A

#### Section 16 Other Information

16.1 Indication of changes: No applicable.

16.2 Relevant R-phrases and S-phrases (number and full text): No applicable.

Further information:

The information provided in this Material 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 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.