SAFETY DATA SHEET (SDS)

Revision date: 05/18

SDS – 069
Revision number: 02
Rev. 05/18

SPOTCHEM™ II Basic Panel 1
Part Numbers: SE77126 and 77190
For use with the SPOTCHEM EZ Analyzer SP-4430

ARKRAY USA, Inc.
5182 West 76th Street
Minneapolis, Minnesota 55439

Technical Customer Service Phone:
1-855-646-3108
SAFETY DATA SHEET

SDS No. : 77126EU
Issue Date : 1 Nov. 2005
Revision Date : 31 Jan. 2017

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : SPOTCHEM II Basicpanel1

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

The product is applicable for the following purpose of use only. Use exclusive reagents for SPOTCHEM analyzer.

1.3 Details of the supplier of the safety data sheet

ARKRAY FACTORY, Inc.
Address : 1480 Koji, Konan-cho, Koka-shi, Shiga 520-3306, JAPAN
Phone : +81-748-86-6901
Facsimile : +81-748-86-5347

European representative
ARKRAY Europe, B. V.
Address : Prof. J. H. Bavincklaan 2, 1183 AT Amstelveen, THE NETHERLANDS
Phone : +31-20-545-2450
Facsimile : +31-20-545-2459

1.4 Emergency telephone number
Emergency phone : +31-20-545-2450

2. Hazards Identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to REGULATION (EC) No 1272/2008.

2.2 Label elements

The product does not need to be labeled in accordance with EC directives or respective national laws.

2.3 Other hazards

May be harmful if ingested.
May cause eyes and skin irritation.

3. Composition/information on ingredients

3.2 Mixtures

Creatinine

<table>
<thead>
<tr>
<th>Component</th>
<th>Conc. [%]</th>
<th>Formula</th>
<th>EINECS No.</th>
<th>CAS No.</th>
<th>Classification Regulation(EC) 1272/2008(CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,5-Dinitrobenzoic acid</td>
<td>&lt; 1.0</td>
<td>C7H4N2O6</td>
<td>202-75-1</td>
<td>99-34-3</td>
<td>Acute Tox. (Oral) 4; H302,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2; H315,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2A; H319</td>
</tr>
</tbody>
</table>
### Albumin

<table>
<thead>
<tr>
<th>Component</th>
<th>Conc. [%]</th>
<th>Formula</th>
<th>EINECS No.</th>
<th>CAS No.</th>
<th>Classification Regulation(EC) 1272/2008(CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bromocresol green</td>
<td>&lt; 0.1</td>
<td>C₁₂H₁₄Br₂O₅S</td>
<td>200-972-8</td>
<td>76-60-8</td>
<td>—</td>
</tr>
</tbody>
</table>

### Glucose

<table>
<thead>
<tr>
<th>Component</th>
<th>Conc. [%]</th>
<th>Formula</th>
<th>EINECS No.</th>
<th>CAS No.</th>
<th>Classification Regulation(EC) 1272/2008(CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glucose oxidase (GOD)</td>
<td>&lt; 0.1</td>
<td>—</td>
<td>232-601-0</td>
<td>9001-37-0</td>
<td>—</td>
</tr>
<tr>
<td>Peroxidase (POD)</td>
<td>&lt; 0.01</td>
<td>—</td>
<td>232-668-6</td>
<td>9003-99-0</td>
<td>Skin Irrit. 2; H315, Eye Irrit. 2; H319, Repr. 1B; H360, STOT SE (central nervous system, alimentary canal) 1; H370, STOT SE (respiratory tract irritation) 3; H335, STOT RE (kidney) 1; H372</td>
</tr>
<tr>
<td>4-Aminoantipyrine (4-AAP)</td>
<td>&lt; 0.1</td>
<td>C₁₇H₁₃N₂O₂</td>
<td>201-452-3</td>
<td>83-07-8</td>
<td>Acute Tox. (Oral) 4; H302, Skin Irrit. 2; H315, Eye Irrit. 2; H319</td>
</tr>
<tr>
<td>1-Naphthole-3,6-disulfonic acid, disodium salt</td>
<td>&lt; 0.1</td>
<td>C₁₀H₆Na₂O₇S₂</td>
<td>243-754-8</td>
<td>20349-39-7</td>
<td>Skin Irrit. 2; H315, Eye Irrit. 2A; H319</td>
</tr>
</tbody>
</table>

### Blood Urea Nitrogen

<table>
<thead>
<tr>
<th>Component</th>
<th>Conc. [%]</th>
<th>Formula</th>
<th>EINECS No.</th>
<th>CAS No.</th>
<th>Classification Regulation(EC) 1272/2008(CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>o-Phthalaldehyde</td>
<td>&lt; 1.0</td>
<td>C₈H₆O₂</td>
<td>211-402-2</td>
<td>643-79-8</td>
<td>Acute Tox. (Oral) 3; H301, Skin Irrit. 2; H315, Eye Irrit. 2A; H319, Skin Sens. 1; H317</td>
</tr>
<tr>
<td>N-1-Naphthyl-N'-diethylethylene diamino oxalic acid</td>
<td>&lt; 0.1</td>
<td>C₁₀H₇NHCH₂CH₂N(C₂H₅)₂-C₂H₄O₄</td>
<td>—</td>
<td>29473-53-8</td>
<td>Acute Tox. (Oral) 3; H301, Acute Tox. (Dermal) 3; H311, Acute Tox. (Inhalation) 3; H331, Skin Irrit. 2; H315, Eye Irrit. 2A; H319</td>
</tr>
</tbody>
</table>
### Calcium

<table>
<thead>
<tr>
<th>Component</th>
<th>Conc. [%]</th>
<th>Formula</th>
<th>EINECS No.</th>
<th>CAS No.</th>
<th>Classification Regulation(EC) 1272/2008(CLPO)</th>
</tr>
</thead>
<tbody>
<tr>
<td>o-Cresolphthalein complexone (OCPC)</td>
<td>&lt; 0.1</td>
<td>C_{32}H_{32}N_{2}O_{12}</td>
<td>219-318-8</td>
<td>2411-89-4</td>
<td>—</td>
</tr>
</tbody>
</table>

4. **First aid measures**

4.1 **Description of first aid measures**

   **Inhalation**
   
   Not applicable

   **Skin contact**
   
   Immediately wash thoroughly with water and soap. Immediately get medical attention if itchiness and inflammation occurs.

   **Eye contact**
   
   Immediately wash eyes with plenty of clean water for at least 15 minutes and get medical attention.

   **Ingestion**
   
   Rinse mouth. Give one or two glasses of water to drink

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

   No relevant information available

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

   No relevant information available

5. **Firefighting measures**

5.1 **Extinguishing media**

   Suitable extinguishing media
   
   Water

   Unsuitable extinguishing media
   
   No relevant information available

5.2 **Special hazards arising from the substance or mixture**

   No relevant information available

5.3 **Advice for firefighters**

   No relevant information available

6. **Accidental release measures**

6.1 **Personal precautions, protective equipment and emergency procedures**

   For non-emergency personnel
   
   No information available

   For emergency responder
   
   Wear protective gloves.

6.2 **Environmental precautions**

   No relevant information available

6.3 **Methods and material for containment and cleaning up**
Pick up the product and wipe the contaminated area with damp cloth. Rinse the used cloth.

6.4 Reference to other sections
Not available

7. Handling and storage
7.1 Precautions for safe handling
Preventive measures (Exposure Control for handling personnel)
No relevant information available
7.2 Conditions for safe storage, including any incompatibilities
Store the product in a refrigerator at temperature of 2 - 8 °C.
7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls/personal protection
8.1 Control parameters
No data available
8.2 Exposure controls
Appropriate engineering controls
No information available
Individual protection measures, such as personal protective equipment
Eye/face protection
Use safety glasses, if necessary
Skin protection
Hand protection
Use rubber gloves, if necessary
Other
Not necessary
Respiratory protection
Not necessary
Thermal hazards
No information available
Environmental exposure controls
No relevant information available

9. Physical and chemical properties
9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Evaporation rate: No data available
Flammability: No data available
Upper/lower flammability or explosive limits: No data available
Vapor pressure: No data available
Vapor density: No data available
Solubility in: No data available
Partition coefficient: No data available
n-octanol/water: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available

9.2 Other information
No further relevant information

10. Stability and reactivity
10.1 Reactivity
Stable under normal conditions

10.2 Chemical stability
Stable under normal conditions

10.3 Possibility of hazardous reactions
None

10.4 Conditions to avoid
Sunlight, heat, and humidity

10.5 Incompatible materials
No information available

10.6 Hazardous decomposition products
None

11. Toxicological information
11.1 Information on toxicological effects
Acute toxicity: No information available
Skin corrosion/irritation: No information available
Serious eye damage/irritation: No information available
Respiratory or skin sensitization: No information available
Germ cell mutagenicity: No information available
Carcinogenicity: No information available
Reproductive toxicity: No information available
STOT-single exposure: No information available
STOT-repeated exposure: No information available
Aspiration hazard: No information available
12. Ecological information

12.1 Toxicity
No information available

12.2 Persistence and degradability
No information available

12.3 Bioaccumulative potential
No information available

12.4 Mobility in soil
No information available

12.5 Results of PBT and vPvB assessment
No information available

12.6 Other adverse effects
No information available

13. Disposal considerations

13.1 Waste treatment methods
Product
Dispose of the product in accordance with regulations.

Contaminated packaging
Dispose as of unused product.

Others
If used product, ask a licensed disposal company.
Observe all federal, state, and local environmental regulation.

14. Transport information

14.1 UN number
ADR/RID: — IMDG: — IATA: —

14.2 UN proper shipping name
ADR/RID: — IMDG: — IATA: —

14.3 Transport hazard class(es)
ADR/RID: — IMDG: — IATA: —

14.4 Packing group
ADR/RID: — IMDG: — IATA: —

14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user
No relevant information available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No relevant information available

15. Regulatory information

The safety datasheet compiles with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture
No information available

15.2 Chemical safety assessment
No information available

16. Other information

The date of preparation and revision of the SDS
Prepared on 1 November 2005.
Revised on 8 January 2010: Changed Telephone number & Facsimile number of the Manufacturer in “Company information.”
Revised on 1 July 2010: Modified to fit with ISO11014-1.
Revised on 2 December 2011: Revised “3.COMPOSITION / INFORMATION ON INGREDIENTS.”
Revised on 14 April 2016: Modified in accordance with the requirements of Regulation (EC) No. 1907/2006. European representative’s address has changed.
Revised on 31 January 2017: Corrected the wording in 15.1.
Clarified concentration in Composition/Information on ingredients.

Key literature references
Insert

Further information
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ARKRAY, Inc. assumes no responsibility for injury caused from the use of the product described herein.