SAFETY DATA SHEET (SDS)

Revision date: 05/18

SDS – 019
Revision number: 01
Rev. 05/18

SPOTCHEM™ II BUN (Blood Urea Nitrogen)
Part Numbers: SE77105 and 77134

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. : 77399EU
Issue Date : 18 Mar. 1998
Revision Date : 31 Jan. 2017

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

1.1 Product identifier
   Product name : SPOTCHEM II BUN

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Conc. [%]</th>
<th>Formula</th>
<th>EINECS No.</th>
<th>CAS No.</th>
<th>Classification</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>
</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**
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
   Appearance  Solid
   Odour     No data available
   Odour threshold  No data available
   pH      No data available
   Melting point/freezing point  No data available
Boiling point and boiling range  No data available
Flash Point  No data available
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: 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 sensitzation  No information available
Germ cell mutagenicity  No information available
Carcinogenicity
Reproductive toxicity  No information available
STOT-single exposure  No information available
STOT-repeated exposure  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: —  IMGD: —  IATA: —

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

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

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

14.5 Environmental hazards
ADR/RID: no  IMGD 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

Revised on 25 August 2000: Changed the Company name from “KDK corporation” to “ARKRAY, Inc.”
Revised on 10 December 2002: Modified in accordance with the requirements of Directive 2001/58/EC.
Revised on 22 October 2003: Changed the Manufacturer from “ARKRAY FACTORY” to “ARKRAY, Inc” in “Company information.”
Revised on 1 November 2005: Changed the Manufacturer from “ARKRAY, Inc” to “ARKRAY FACTORY” in “Company information.”
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 1 June 2015: Modified in accordance with the requirements of Regulation (EC) No. 1907/2006.
Revised on 1 December 2015: 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

The above information contained herein is based on the data available to us and is believed to be correct. However, ARKRAY, Inc. bears no warranty expresses or implies regarding the accuracy of these data or the results to be obtained from the use thereof.

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