

# SAFETY DATA SHEET (SDS)

Revision date: 05/18

**SDS – 031**

**Revision number: 01**

**Rev. 05/18**

***SPOTCHEM™ II LDH***

**Part Numbers: *SE77120 and 77149***

**For use with the *SPOTCHEM EZ Analyzer SP-4430***

**ARKRAY USA, Inc.**

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**Minneapolis, Minnesota 55439**

**Technical Customer Service Phone:**

***1-855-646-3108***

## SAFETY DATA SHEET

SDS No. : 77406EU  
 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 LDH

#### 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

Component	Conc. [%]	Formula	EINECS No.	CAS No.	Classification Regulation(EC) 1272/2008(CLP)
Lithium L-(+)-Lactate	< 0.1	C <sub>3</sub> H <sub>5</sub> LiO <sub>3</sub>	248-692-5	27848-80-2	—
cotinamide adenine dinucleotide (NAD)	< 1.0	C <sub>21</sub> H <sub>27</sub> N <sub>7</sub> O <sub>14</sub> P <sub>2</sub>	200-184-4	53-84-9	—
Tetrazolium violet	< 0.1	C <sub>23</sub> H <sub>17</sub> ClN <sub>4</sub>	217-008-7	1719-71-7	—
Diaphorase	< 0.1	—	—	9032-20-6	—

#### 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

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 sensitization	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	
IARC: —	NTP: —
Reproductive toxicity	No information available
STOT-single exposure	No information available
STOT-repeated exposure	No information available
Aspiration hazard	No information available

OSHA: —  
ACGUH: —

**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 18 March 1998.

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 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.