

SAFETY DATA SHEET (SDS)

Revision date: 05/18

SDS – 068

Revision number: 02

Rev. 05/18

SPOTCHEM™ II Basic Panel 2

Part Numbers: SE77127 and 77191

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. : 77127EU
 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 Basicpanel2

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

GPT/ALT

Component	Conc. [%]	Formula	EINECS No.	CAS No.	Classification Regulation(EC) 1272/2008(CLP)
L-Alanine	< 0.1	C ₃ H ₇ NO ₂	200-273-8	56-41-7	—
α-Ketoglutaric acid	< 0.1	C ₅ H ₆ O ₅	206-330-3	328-50-7	Skin Irrit. 2; H315, Eye Irrit. 2A; H319
Pyruvate oxidase (POP)	< 0.1	—	232-644-5	9001-96-1	—

4-Aminoantipyrine (4-AAP)	< 0.01	C ₁₁ H ₁₃ N ₃ O	201-452-3	83-07-8	Acute Tox. (Oral) 4; H302, Skin Irrit. 2; H315, Eye Irrit. 2; H319
N-Ethyl-N-(2-hydroxy -3-sulfopropyl)- 3,5-dimethoxyaniline sodium salt (DAOS)	< 0.01	C ₁₃ H ₂₀ NNaO ₆ S	—	83777-30-4	—
Peroxidase (POD)	< 0.1	—	232-668-6	9003-99-0	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
Thiamine pyrophosphate acid (TPP)	< 0.01	C ₁₂ H ₁₉ ClN ₄ O ₇ P ₂ S	205-836-1	154-87-0	—
Magnesium chloride	< 0.01	MgCl ₂	232-094-6	7786-30-3	Skin Irrit. 3; 316, Eye Irrit. 2A; 319

GOT/AST

Component	Conc. [%]	Formula	EINECS No.	CAS No.	Classification Regulation(EC) 1272/2008(CLP)
Sodium L-aspartate	< 1.0	C ₄ H ₆ O ₄ NNa • H ₂ O	223-264-0	3792-50-5	—
α-Ketoglutaric acid	< 0.1	C ₅ H ₆ O ₅	206-330-3	328-50-7	Skin Irrit. 2; H315, Eye Irrit. 2A; H319
Oxalacetic acid decarboxylase (OAC)	< 0.01	—	—	9024-98-0	—
Pyruvate oxidase (POP)	< 0.1	—	232-644-5	9001-96-1	—
4-Aminoantipyrine (4-AAP)	< 0.01	C ₁₁ H ₁₃ N ₃ O	201-452-3	83-07-8	Acute Tox. (Oral) 4; H302, Skin Irrit. 2; H315, Eye Irrit. 2; H319
N-Ethyl-N-(2-hydroxy -3-sulfopropyl)- 3,5-dimethoxyaniline sodium salt (DAOS)	< 0.01	C ₁₃ H ₂₀ NNaO ₆ S	—	83777-30-4	—

Peroxidase (POD)	< 0.01	—	232-668-6	9003-99-0	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
Thiamine pyrophosphate acid (TPP)	< 0.01	C ₁₂ H ₁₉ N ₄ O ₇ P ₂ S	205-836-1	154-87-0	—
Magnesium chloride	< 0.01	MgCl ₂	232-094-6	7786-30-3	Skin Irrit. 3; H316, Eye Irrit. 2A; H319

ALP

Component	Conc. [%]	Formula	EINECS No.	CAS No.	Classification Regulation(EC) 1272/2008(CLP)
p-Nitrophenyl phosphate di(2-amine-2-ethyl-1,3-propanediol) salt	< 0.1	C ₁₆ H ₃₂ N ₃ O ₁₀ P	263-734-2	62796-28-5	—

Total Protein

Component	Conc. [%]	Formula	EINECS No.	CAS No.	Classification Regulation(EC) 1272/2008(CLP)
Copper sulfate	< 0.1	CuSO ₄	231-847-6	7758-98-7	Acute Tox. (Oral) 4; H302, Skin Irrit. 2; H315, Eye Irrit. 2; H319, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

Total Bilirubin

Component	Conc. [%]	Formula	EINECS No.	CAS No.	Classification Regulation(EC) 1272/2008(CLP)
Sulfanilic acid	< 0.1	C ₆ H ₇ NO ₃ S	204-482-5	121-57-3	Skin Irrit. 2; H315, Eye Irrit. 2A; 319, Skin Sens. 1; H317

Sodium nitrite	< 0.1	NaNO ₂	231-555-9	7632-00-0	Ox. Sol. 3; H272, Acute Tox. (Oral) 3; H301, Acute Tox. (Inhalation) 1; H330, Eye Irrit. 2A; H319, STOT SE (blood, cardiovascular system) 2; H371, STOT RE (blood) 2; H373, Aquatic Acute 1; H400, Aquatic Chronic 1; H410
Dyphyline	< 0.1	C ₁₀ H ₁₄ N ₄ O ₄	207-526-1	479-18-5	Acute Tox. (Oral) 4; H302

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

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 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

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.