

# Safety Data Sheet



Revision Date: 7/31/2014

HisDetector™ Nickel-AP

SDS #: SDS-10240-01

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Description:**

HisDetector™ Nickel-AP

**Product Code**

25-01-01

**Kit Components:**

HisDetector™ Nickel-AP (NSS)	25-01-02
Detector Block Solution 5X	71-83-01

**Recommended Use** Kit (See Attached Safety Data Sheets For Components Listed Above)

**Contact Manufacturer** KPL, Inc.  
910 Clopper Road  
Gaithersburg, Maryland 20878  
USA

**Phone #:** 1-301-948-7755  
**Fax #:** 1-301-948-0169  
**Web:** [www.kpl.com](http://www.kpl.com)  
**Email:** [kplmsds@seracare.com](mailto:kplmsds@seracare.com)

**Emergency Telephone Numbers:**

AUSTRALIA – POISONS INFORMATION CENTER	Telephone: 13 11 26	Hours: 24 hours
CANADIAN TRANSPORT EMERGENCY CENTER	Telephone: (1 ) 613 996 6666	Hours: 24 hours/day, 7 days/week
UK – THE NATIONAL FOCUS	Telephone: (44) 029 2041 6388	Hours: 09:00-17:00 GMT
USA- NATIONAL RESPONSE CENTER	Telephone: (1 ) 800 424 8802	Hours: 24 hours/day, 7 days/week

**CHEMTREC:**

CHEMTREC Customer Number:- CCN12505\*  
For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
Within USA and Canada: 1-800-424-9300 CCN12505 or  
+1 703-527-3887 (collect calls accepted)

# Safety Data Sheet



Revision Date: 7/18/2014

SDS #: 10239

HisDetector™ Nickel-AP

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Description:**

HisDetector™ Nickel-AP (NSS)

**Product Code**

25-01-02

**Hazardous Reagent**

HISDETECTOR™ NICKEL-AP

**Hazardous Reagent Product code**

Catalog No. listed above

**Recommended Use** Reagent

**Contact Manufacturer** KPL, Inc.  
910 Clopper Road  
Gaithersburg, Maryland 20878  
USA

**Phone #:** 1-301-948-7755  
**Fax #:** 1-301-948-0169  
**Web:** www.kpl.com  
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+1 703-527-3887 (collect calls accepted)

## 2. HAZARD IDENTIFICATION

**Hazard Type** GHS Classification in accordance with 29 CFR 1910 (OSHA HCS): The product contains no substances which at their given concentration, are considered to be hazardous to health or the environment.

**Principle Route of Exposure** Ingestion, Inhalation and Skin contact.

**Acute Effects: Eye:** May cause redness and irritation

**Acute Effects: Skin:** Dry skin.

<b>Acute Effects: Inhalation:</b>	Data for 100% Glycerol: Evaporation at 20°C is negligible; a nuisance-causing concentration of airborne particles can, however, be reached quickly on spraying.
<b>Acute Effects: Ingestion:</b>	Diarrhoea.
<b>Chronic Effects:</b>	Not Available
<b>Additional Information</b>	Not Available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
HisDetector™ Nickel-AP	Glycerol	<40%	56-81-5
	Nickel Sulphate Hexahydrate	<0.1%	10101-97-0

<b>GHS Classification</b>	Not Applicable: The product contains no substances which at their given concentration, are considered to be hazardous to health or the environment as per: GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Regulation (EC) No 1272/2008
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### 4. FIRST AID MEASURES

<b>General Advice</b>	Wash contaminated clothing before reuse. Consult a physician if irritation persists.
<b>Oral Exposure</b>	Rinse mouth. Refer for medical attention.
<b>Inhalation Exposure</b>	Remove subject to fresh air. Seek medical attention if necessary.
<b>Skin Exposure</b>	Rinse with copious amounts of water
<b>Eye Exposure</b>	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

### 5. FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Water spray. Alcohol-resistant foam. Dry powder. Carbon dioxide
<b>Unusual Fire and Explosive Hazards</b>	Data for 100% Glycerol: In case of fire: keep drums, etc., cool by spraying with water.
<b>Flash Point</b>	Not Available
<b>Autoignition Temperature</b>	Data for 100% Glycerol: 393°C
<b>Flammability Statement</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.
<b>Specific hazards arising from the chemical</b>	Upon evaporation of water, glycerol may omit toxic fumes under fire conditions. In the event of fire and/or explosion do not breathe fumes.
<b>Protective equipment and precautions for firefighters</b>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with skin and clothing.
<b>Environmental Precautions</b>	Not Applicable
<b>Method of Containment</b>	Collect leaking liquid in covered containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place.
<b>Methods of Clean-up</b>	Clean-up with copious amounts of water.
<b>Other Information</b>	Not Applicable

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Wear appropriate PPE.
<b>Storage:</b>	Store at 2-8°C. refrigerated. Separated from strong oxidants.

## 8. EXPOSURE CONTROL

<b>Respiratory Protection</b>	Ventilation.
<b>Eye Protection</b>	Safety goggles.
<b>Skin Protection</b>	Protective gloves and clothing required
<b>Ingestion</b>	Do not eat, drink, or smoke during work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Colorless or Pale Yellow Solution.
<b>Physical State</b>	Liquid
<b>Odor</b>	Not Applicable
<b>Odor Threshold</b>	Not Applicable
<b>pH</b>	Not Available
<b>Boiling Point</b>	Not Available
<b>Evaporation Rate</b>	Not Available
<b>Vapor Density</b>	Data for 100% Glycerol: 3.2
<b>Vapor Pressure</b>	Data for 100% Glycerol: 0.01
<b>Relative Density</b>	Data for 100% Glycerol: 1.26
<b>Auto-Ignition Temperature</b>	Not Available
<b>Water Solubility</b>	Dilutable
<b>Flammability</b>	Data for 100% Glycerol: 393°C
<b>Flash Point</b>	Not Available
<b>Viscosity</b>	Viscous
<b>Oxidizing Properties</b>	Not Available
<b>Explosive Properties</b>	Data for 100% Glycerol: 2.6 - 11.3
<b>Additional Parameters</b>	Not Available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal condition
<b>Conditions to avoid</b>	Data for 100% Glycerol: NO open flames.
<b>Incompatibility Materials to Avoid</b>	Strong oxidizing agents and strong bases
<b>Hazardous Decomposition Products</b>	Carbon Monoxide, Carbon Dioxide
<b>Hazardous Polymerization</b>	Will not occur
<b>Possibility of hazardous reactions</b>	Data for 100% Glycerol: Reacts with strong oxidants causing fire and explosion hazard.

## 11. TOXICOLOGY MEASURES

### Acute Toxicity

The toxicological risks are minor due to the low concentration of hazardous ingredients. The following toxicological information is for the hazardous ingredient in pure form.

<b>LD50 Oral</b>	Data for 100% Glycerol: LD50 oral rat: 12600 mg/kg Reference: Federation Proceedings, Federation of American Societies for Experimental Biology. Vol. 4, Pg. 142, 1945.
<b>LD50 Dermal</b>	Data for 100% Glycerol: LD50 dermal rat/rabbit: > 10000 mg/kg Species: Rabbit Reference: BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets. Vol. 9-4/1970,
<b>LC50 Inhalation</b>	Not Available

### Chronic Toxicity

<b>Carcinogenicity</b>	Not Applicable
<b>Irritation</b>	Yes - May Occur
<b>Corrosivity</b>	Not Applicable
<b>Sensitization</b>	Not applicable.
<b>Neurological Effects</b>	Not applicable.
<b>Mutagenic Effects</b>	Not applicable.
<b>Reproductive Effects</b>	Not applicable.
<b>Developmental Effects</b>	Not applicable.
<b>Target Organ Effects</b>	Not applicable.
<b>Other adverse effects</b>	Not applicable.

## 12. ECOLOGICAL MEASURES

<b>Ecotoxicity</b>	Data for 100% Glycerol: Toxicity threshold (cell multiplication inhibition test) Algae (Microcystis aeruginosa) 2900 mg/l ; Protozoa (Entosiphon sulcatum) 3200 mg/l ; LC50 Goldfish >5000 mg/l/24 hr - modified ASTM D 1345 [Verschueren, K. Handbook of Environmental Data of Organic Chemicals. 2nd ed. New York, NY: Van Nostrand Reinhold Co., 1983., p. 695]
<b>Persistence/Degradability</b>	Data for 100% Glycerol: Readily biodegradable
<b>Mobility in Environmental Media</b>	Data for 100% Glycerol: Very high mobility in soil [Swann RL et al; Res Rev 85: 17-28 (1983)]

**Bioaccumulation/  
Accumulation** Not expected

### 13. DISPOSAL MEASURES

**Waste Disposal Method:** Observe all Federal, State and Local laws concerning health and pollution.

**Contaminated Packaging:** Avoid contact with skin and clothing. Place contaminated packaging in a break proof outer vessel and dispose on in compliance with national and local regulations.

**US EPA Waste Number:** Not Applicable

### 14. TRANSPORTATION MEASURES

**DOT:** Not regulated.

**IATA:** Not regulated.

**ADR (road)/ RID (rail):** Not regulated.

**IMDG (sea):** Not regulated.

**General Transport Regulations** Not Applicable

### 15. REGULATORY MEASURES

**This product is a mixture that may contain one or more hazardous chemicals. The hazardous ingredients listed are only those as required by 29 CFR 1910.1200 (OSHA HCS).**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

Triethylamine

CAS/313 Category Codes: 121-44-8 | CERCLA RQ: 5,000 | Section 313: 313 | RCRACODE: U404

#### **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (See 40 CFR 61)**

This product contains the following chemical or chemicals which are subject to the reporting requirements of the Clean Air Act.

Chemical: TRIETHYLAMINE CAS Number: 121-44-8

Federal Regulatory Program Lists

Air Contaminants (Occupational and Safety Health Act) Hazardous Air Pollutants (Clean Air Act) Hazardous Constituents (Resource Conservation and Recovery Act) Hazardous Substances (Superfund) Toxic Release Inventory Chemicals California

State Regulatory Program Lists

Air Contaminants (California Occupational and Safety Health Act) California Air Toxics "Hot Spots" Chemicals (Assembly Bill 2588) California Toxic Air Contaminants (Assembly Bill 1807)

#### **State Regulations**

#### **California Proposition 65:**

This product contains the following Proposition 65 chemicals: None Listed

#### **State Right to Know Act**

<b>Chemical Name</b>	<b>Glycerol</b>	<b>Nickel Sulphate Hexahydrate</b>
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<b>Massachusetts</b>	Listed	Not Listed
<b>New Jersey</b>	Listed	Listed
<b>Pennsylvania</b>	Listed	Not Listed
<b>New York</b>	Not Listed	Not Listed
<b>Rhode Island</b>	Not Listed	Not Listed

**International Inventories**

<b>Chemical Name</b>	<b>Glycerol</b>	<b>Nickel Sulphate Hexahydrate</b>
<b>TSCA</b>	Listed	Listed
<b>DSL</b>	Listed	Not Listed
<b>NDSL</b>	Not Listed	Not Listed
<b>EINECS</b>	Listed	Not Listed
<b>CHINA</b>	Listed	Listed
<b>KECL</b>	Listed	Listed
<b>JAPAN:</b>	Listed	Listed
<b>AICS</b>	Listed	Not Listed

**EU Regulations**

<b>Annex I Index#</b>	Not Applicable
<b>Classification</b>	Not Applicable: The product contains no substances which at their given concentration, are considered to be hazardous to health or the environment as per: GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Regulation (EC) No 1272/2008
<b>Risk Phrases</b>	Not Applicable
<b>Safety Phrases</b>	Not Applicable
<b>Symbols and Indications of Danger</b>	Not Applicable
<b>Specific Concentration Limits</b>	Not Applicable
<b>Export and Import</b>	This substance is not listed in the Annex I of Regulation (EC) No 649/2012.
<b>European Priority List</b>	This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.).

**16. OTHER INFORMATION**

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. KPL shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes. This material is sold for research purposes and is intended as laboratory reagents only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals.

Revision Date: 7/18/2014





# Safety Data Sheet

Revision Date: 6/11/2015

Detector Block Solution 5X

SDS #: SDS-10124-03

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	Product Code
Detector Block Solution 5X (Sample)	SPL-DB
Detector Block Solution 5X	71-83-01
Detector Block Solution 5X	71-83-04
Detector Block Solution 5X	71-83-02

**Hazardous Reagent**  
None

**Hazardous Reagent Product code**  
Not Applicable

**Recommended Use** Reagent

**Contact Manufacturer** KPL, Inc.  
910 Clopper Road  
Gaithersburg, Maryland 20878  
USA

**Phone #:** 1-301-948-7755  
**Fax #:** 1-301-948-0169  
**Web:** www.kpl.com  
**Email:** kplmsds@seracare.com

### Emergency Telephone Numbers:

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UK – THE NATIONAL FOCUS	Telephone: (44) 029 2041 6388	Hours: 09:00-17:00 GMT
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+1 703-527-3887 (collect calls accepted)

## 2. HAZARD IDENTIFICATION

**Hazard Type** GHS Classification in accordance with 29 CFR 1910 (OSHA HCS): The product contains no substances which at their given concentration, are considered to be hazardous.

**Principle Route of Exposure** The substance can be absorbed into the body by inhalation, through the skin and by ingestion.

**Acute Effects: Eye:** Eye Irritant

**Acute Effects: Skin:** Prolonged contact can cause skin irritation

**Acute Effects: Inhalation:** Irritating to mucus membranes and upper respiratory tract.

**Acute Effects: Ingestion:** None available

**Chronic Effects:** None Available

Additional Information

Not Applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
Detector Block Solution 5X	2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	< 2.5%	1185-53-1

**GHS Classification**

Not Applicable:

The product contains no substances which at their given concentration, are considered to be hazardous to health or the environment as per:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)  
Regulation (EC) No 1272/2008

### 4. FIRST AID MEASURES

<b>General Advice</b>	Wash contaminated clothing before reuse. Consult a physician if irritation persists.
<b>Oral Exposure</b>	Rinse mouth. Refer for medical attention.
<b>Inhalation Exposure</b>	Remove subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, give oxygen. Seek medical attention.
<b>Skin Exposure</b>	First rinse with plenty of water, then remove contaminated clothes and rinse again. Refer for medical attention.
<b>Eye Exposure</b>	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

### 5. FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Foam, Alcohol Foam, CO <sub>2</sub> , Dry Chemical and Water/Fog
<b>Unusual Fire and Explosive Hazards</b>	May emit toxic fumes under fire conditions.
<b>Flash Point</b>	Not Applicable
<b>Autoignition Temperature</b>	Not Available
<b>Flammability Statement</b>	Not Available
<b>Specific hazards arising from the chemical</b>	Not Available
<b>Protective equipment and precautions for firefighters</b>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with skin and clothing.
<b>Environmental Precautions</b>	Not Applicable
<b>Method of Containment</b>	Collect leaking and spilled liquid in sealable containers as far as possible.
<b>Methods of Clean-up</b>	Clean up the spill with absorbent material and place in closed containers for disposal. Wash the spill site thoroughly. Ventilate area before returning to the spill site.
<b>Other Information</b>	Not Applicable

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Storage:</b>	Store at 2-8°C.

## 8. EXPOSURE CONTROL

<b>Respiratory Protection</b>	None required if good ventilation is maintained. Otherwise wear MSHA/NIOSH approved respirator suitable for vapor or mist concentrations encountered.
<b>Eye Protection</b>	Safety goggles.
<b>Skin Protection</b>	Protective gloves. Protective clothing.
<b>Ingestion</b>	Do not eat, drink, or smoke during work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, brownish solution.
<b>Physical State</b>	Liquid
<b>Odor</b>	Not Applicable
<b>Odor Threshold</b>	Not Applicable
<b>pH</b>	Not Applicable
<b>Boiling Point</b>	Not Applicable
<b>Evaporation Rate</b>	Not Applicable
<b>Vapor Density</b>	Not Applicable
<b>Vapor Pressure</b>	Not Applicable
<b>Relative Density</b>	Not Applicable
<b>Auto-Ignition Temperature</b>	Not Applicable
<b>Water Solubility</b>	Dilutable
<b>Flammability</b>	Not Applicable
<b>Flash Point</b>	Not Applicable
<b>Viscosity</b>	Not Applicable
<b>Oxidizing Properties</b>	Not Applicable
<b>Explosive Properties</b>	Not Applicable
<b>Additional Parameters</b>	Not Available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable
<b>Conditions to avoid</b>	Not Available
<b>Incompatibility Materials to Avoid</b>	Incompatible with bases and strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may produce carbon monoxide, carbon dioxide, and nitrogen oxides.
<b>Hazardous Polymerization</b>	Will not occur
<b>Possibility of hazardous reactions</b>	Not Available

## 11. TOXICOLOGY MEASURES

### Acute Toxicity

## SDS #: SDS-10124-03

The toxicological risks are minor due to the low concentration of hazardous ingredients. The following toxicological information is for the hazardous ingredient in pure form.

**LD50 Oral** Not Available

**LD50 Dermal** Not Available

**LC50 Inhalation** Not Available

**Chronic Toxicity**

**Carcinogenicity** Not Available

**Irritation** Not Available

**Corrosivity** Not Available

**Sensitization** Not Available

**Neurological Effects** Not Available

**Mutagenic Effects** Not Available

**Reproductive Effects** Not Available

**Developmental Effects** Not Available

**Target Organ Effects** Eyes, Skin and Respiratory tract

**Other adverse effects** Not Available

## 12. ECOLOGICAL MEASURES

**Ecotoxicity** Not Available

**Persistence/Degradability** Not Available

**Mobility in Environmental Media** Not Available

**Bioaccumulation/Accumulation** Not Available

## 13. DISPOSAL MEASURES

**Waste Disposal Method:** Observe all Federal, State, and Local laws concerning health and pollution.

**Contaminated Packaging:** Avoid contact with skin and clothing. Place contaminated packaging in a break proof outer vessel and dispose on in compliance with national and local regulations.

**US EPA Waste Number:** Not Available

## 14. TRANSPORTATION MEASURES

**DOT:** Not Available

**IATA:** Not Available

**ADR (road)/ RID (rail):** Not Available

**IMDG (sea):** Not Available

**General Transport Regulations** Not Available

## 15. REGULATORY MEASURES

**This product is a mixture that may contain one or more hazardous chemicals. The hazardous ingredients listed are only those as required by 29 CFR 1910.1200 (OSHA HCS).**

SDS #: SDS-10124-03

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains no chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (See 40 CFR 61)**

Not Listed

**State Regulations**

**California Proposition 65:**

This product contains the following Proposition 65 chemicals: None Listed

**State Right to Know Act**

**Chemical Name** 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride

**New Jersey** Listed  
**Pennsylvania** Listed  
**New York** Listed  
**Rhode Island** Listed

**International Inventories**

**Chemical Name** 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride

**TSCA** Listed  
**DSL** Listed  
**NDSL** Not Listed  
**EINECS** Listed  
**CHINA** Listed  
**KECL** Listed  
**JAPAN:** Listed  
**AICS** Listed

**EU Regulations**

**Annex I Index#** Not Applicable  
**Classification** Not Applicable:  
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 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)  
 Regulation (EC) No 1272/2008  
**Risk Phrases** Not Applicable  
**Safety Phrases** Not Applicable  
**Symbols and Indications of Danger** Not Applicable  
**Specific Concentration Limits** Not Applicable

**16. OTHER INFORMATION**

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. KPL shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes. This material is sold for research purposes and is intended as laboratory reagents only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals.

Revision Date: 6/11/2015