



MATERIAL SAFETY DATA SHEET

Product:**SP6425****EGC II KOH (EluGen® II Potassium Hydroxide Cartridge) Diluted**

DIONEX Corporation
 1228 Titan Way
 P.O. Box 3603
 Sunnyvale, California 94088-3603

Emergency Phone: 1-800-424-9300 (CHEMTREC)
 Information Phone: (408) 737-0700
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The following information is believed to be accurate and is currently the best information available to us. However, we make no warranties, express or implied, with respect to the information supplied and we assume no liability resulting from its use.

2. HAZARDOUS IDENTIFICATION

HAZARD CLASS	Corrosive - Base		NFPA	HMIS
Eyes:	Corrosive	HEALTH	3	3
Skin:	Corrosive	FLAMMABILITY	0	0
Ingestion:	Corrosive	REACTIVITY	0	0
Inhalation:	Corrosive	NFPA SPECIAL	-	-
		HMIS PPE		

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	Water As Shipped	0.1 M KOH As Shipped
PERCENT (%)	99.4	6
CAS NO.	7732-18-5	1310-58-3
EINECS NO.	231-791-2	215-181-3
RISKS		R20/21/22, R23, R35, R36/37/38, R41
SAFETY		S20, S23, S24/S25, S26, S27, S28, S36/37/39, S45



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4. FIRST AID MEASURES

- GENERAL:** Remove contaminated clothing, wash thoroughly before reuse. Discard shoes as waste.
- EYES:** Get medical aid immediately. Do not allow victim to rub or keep eyes closed. Extended irrigation with water is required (at least 30 minutes)
- SKIN:** Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.
- INHALATION:** Get medical aid immediately. Immediately move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device.
- INGESTION:** Get medical aid immediately. Do not induce vomiting. If patient is conscious and alert, give large quantities of milk or water.

5. FIRE FIGHTING MEASURES

- UNUSUAL FIRE AND EXPLOSION:** None
- HAZARDS:** Corrosive
- EXTINGUISHING MEDIA:** Not Applicable
- SPECIAL FIRE FIGHTING PROCEDURES:** Although the product is not combustible, firefighters subject to products of combustion should wear full-protective clothing including self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

- Ventilate area.
Wear appropriate protective clothing and eye protection.
Contain spill.
Neutralize spill with a weak acid such as citric acid.
Avoid runoff into storm sewers and ditches which lead to waterways.
Collect or absorb with an inert material (vermiculite, dry sand, earth, etc.)
Mop up and store in a suitable waste container.
Wash contaminated areas with soap and water.

7. HANDLING AND STORAGE

- Ensure good ventilation.
Have an eye wash in the immediate area in case of emergency.
Store at room temperature
Keep container tightly closed
Use good laboratory practice when working with any chemical whether it is considered hazardous or not.



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8. EXPOSURE CONTROL/PERSONAL PROTECTION

ROUTES OF ENTRY

INHALATION: Yes

SKIN: Yes

INGESTION: Yes

HEALTH HAZARDS

ACUTE: Corrosive: may cause deep penetrating ulcerations to skin, eyes, respiratory, and digestive tract.

CHRONIC: Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated eye contact may cause conjunctivitis. Effects may be delayed.

VENTILATION

LOCAL EXHAUST: Good laboratory ventilation is required.

MECHANICAL (GENERAL): Use in hoods if possible

SPECIAL: None

OTHER: None

PROTECTIVE CLOTHING OR EQUIPMENT

GLOVES: Disposable laboratory gloves are adequate

EYE PROTECTION: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

RESPIRATORY: None

OTHER: Wear appropriate protective clothing to prevent skin exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear

ODOR: None

pH: 12.0 (0.1 M Solution)

MOLECULAR WEIGHT: 56.1 (KOH)

MELTING POINT: Not Applicable

BOILING POINT: 271-293 degrees F (133-145 degrees C)

AUTOIGNITION TEMPERATURE: Not Applicable

FLASH POINT: Not Applicable

LOWER EXPLOSION LIMIT: Not Applicable

UPPER EXPLOSION LIMIT: Not Applicable

SPECIFIC GRAVITY: 1.51



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10. STABILITY & REACTIVITY

STABILITY/CONDITIONS TO AVOID: Stable under normal temperatures and pressures

INCOMPATIBILITY (MATERIALS TO AVOID): Water-reactive materials, strong acids, strong oxidating agents, and metals

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Irritating and toxic fumes and gasses, oxides into potassium

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGY INFORMATION

PRODUCT TOXICOLOGY INFORMATION:

SYMPTOMS AND SIGNS OF EXPOSURE: May cause minor soreness or redness of eyes or mucous membranes leading to burns and deep penetrating ulcerations.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Unknown

EMERGENCY AND FIRST AID PROCEDURES: In all cases seek medical aid immediately.
SKIN: Wash skin with copious amounts of water for at least 15 minutes.
EYES: Flush eyes with copious amounts of water for at least 30 minutes.
INHEALED: Remove to fresh air. If not breathing, give artificial respiration using mechanical equipment, do not give mouth-to-mouth. If breathing is difficult, give oxygen.
INGESTED: Do not induce vomiting, give large quantities of milk or water.

CARCINOGENICITY: No data found

RTECS #: No data found

ACGIH TLV TWA: No data found

OSHA PEL: C 2 mg/m³

NTP: No data found

IARC Monographs: No data found

HAZARDOUS COMPONENT TOXICOLOGY INFORMATION:

Hazardous Components:	Water As Shipped	0.1M KOH As Shipped	Water After Use	0.02 M KOH After Use
RTECS #	ZC0110000	TT2100000	ZC0110000	TT2100000
OSHA PEL	Not Found	C 2 MG/M3	Not Found	C 2 MG/M3
ACGIH TLV	Not Found	C 2 MG/M3; 9596	Not Found	C 2 MG/M3; 9596
TOXICITY DATA	None	SKN-HMN 50 mg/24H SERV ORL-RAT LD50: 365 mg/kg	None None	SKN-HMN 50 mg/24H SERV ORL-RAT LD50: 365 mg/kg



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12. ECOLOGICAL INFORMATION

No information is found on environmental toxicity for this solution

13. DISPOSAL CONSIDERATIONS

Contact local hazardous materials or chemical waste disposal agency for regulations.

14. TRANSPORT INFORMATION

IATA CLASSIFICATION: IATA Dangerous Goods

UN ID NUMBER: 1814
PROPER SHIPPING NAME: Potassium hydroxide solution
CLASS OR DIVISION: 8
SUB RISK: None
HAZARD LABEL(S): Corrosive
PACKAGING GROUP: III
LIMITED QUANTITY PKG INSTRUCTION: Y819
MAXIMUM LIMITED QUANTITY: 1 L
SPECIAL PROVISIONS: None
ERG CODE: 8L

15. REGULATORY INFORMATION

PRODUCT RISK STATEMENTS: R20/21/22 Harmful by inhalation, in contact with skin, if swallowed
R23 Toxic by inhalation
R35 Causes severe burns
R36/37/38 Irritation to eyes, respiratory system, skin, and eyes
R41 Risk of serious damage to eyes

PRODUCT SAFETY STATEMENTS: S20 When using do not eat or drink
S23 Do not breathe vapor
S24/25 Avoid contact with skin or eyes
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S27 Immediately remove all contaminated clothing
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection
S45 In case of accident or if you feel unwell, seek medical advice immediately

16. OTHER INFORMATION