



MATERIAL SAFETY DATA SHEET

Product:

074038 InGuard Ag Cartridges, Pkg. of 4
(Ion exchange cartridges)

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
Date Prepared: 12/23/2009

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	Irritant		NFPA	HMIS
Eyes:	Irritant	HEALTH	1	1
Skin:	Irritant	FLAMMABILITY	0	0
Ingestion:	Irritant	REACTIVITY	0	0
Inhalation:	Irritant	NFPA SPECIAL	-	-
		HMIS PPE		

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	Sulfonated Styrene /Divinyl benzene Cation Exchange Resin	Silver Metal
PERCENT (%)	60.0	40.0
CAS NO.	69011-21-8	7440-22-4
EINECS NO.	Not Found	231-131-3
RISKS	R20/21/22/36	R20/22, R36
SAFETY	S20/24/25/26, S36/37/39	S20/24/25/26, S36/37/39/ 45



MATERIAL SAFETY DATA SHEET

4. FIRST AID MEASURES

- EYES:** Flush with water for at least 15 minutes occasionally raising upper and lower eyelids.
- SKIN:** Remove contaminated clothing and wash with soap and water thoroughly
- INHALATION:** Move to fresh air. If not breathing give artificial respiration
- INGESTION:** If large amounts are swallowed, get medical help immediately.
- EYES:** Flush with water for at least 15 minutes occasionally raising upper and lower eyelids.

5. FIRE FIGHTING MEASURES

- UNUSUAL FIRE AND EXPLOSION:** Container may rupture due to polymerization. Dense acrid smoke is produced when product burns.
- HAZARDS:** During combustion, smoke will contain carbon dioxide, carbon monoxide in addition to other additives and may be toxic or irritating.
- EXTINGUISHING MEDIA:** Carbon Dioxide, Foam, Dry Chemical
(Note: Carbon Dioxide is one of the decomposition products)
- SPECIAL FIRE FIGHTING PROCEDURES:** 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.
Collect or absorb with an inert material (dry sand.)
Sweep up and store in a suitable waste container for disposal.
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 in a dry place
Keep container tightly closed
Use good laboratory practice when working with any chemical whether it is considered hazardous or not.



MATERIAL SAFETY DATA SHEET

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ROUTES OF ENTRY

INHALATION: Yes
SKIN: Surface
INGESTION: Yes

HEALTH HAZARDS

ACUTE: May cause irritation of eyes, skin, and mucous membranes
CHRONIC: Unknown

VENTILATION

LOCAL EXHAUST: Good laboratory ventilation is acceptable.
MECHANICAL (GENERAL): Use in fume hood if possible
SPECIAL: None
OTHER: None

PROTECTIVE CLOTHING OR EQUIPMENT

GLOVES: Disposable laboratory gloves are adequate
EYE PROTECTION: Glasses or goggles.
RESPIRATORY: None
OTHER: Lab coats

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Brown to black powder
ODOR: None
pH: Not applicable (solid)
MOLECULAR WEIGHT: Not applicable (polymer)
MELTING POINT: Polymer (Decomp), 220 degrees C / Silver, 961.93 degrees C
BOILING POINT: Not applicable (a solid)
AUTOIGNITION TEMPERATURE:
FLASH POINT: Not applicable
LOWER EXPLOSION LIMIT: Undetermined
UPPER EXPLOSION LIMIT: Undetermined
SPECIFIC GRAVITY: Not applicable (polymer)



MATERIAL SAFETY DATA SHEET

10. STABILITY & REACTIVITY

STABILITY/CONDITIONS TO AVOID: Stable

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents such as concentrated nitric acid

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide, carbon dioxide, silver compounds

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.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Unknown

EMERGENCY AND FIRST AID PROCEDURES: In case of contact, wash skin with copious amounts of water.
Flush eyes with copious amounts of water for at least 15 minutes.
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Submit to medical examination.

CARCINOGENICITY: No data found

RTECS #: No data found

ACGIH TLV TWA: No data found

OSHA PEL: No data found

NTP: No data found

IARC Monographs: No data found

HAZARDOUS COMPONENT TOXICOLOGY INFORMATION:

Hazardous Components:	Sulfonated Styrene /Divinyl benzene Cation Exchange Resin	Silver Metal
RTECS #	1006059SD	VW3500000
OSHA PEL	Not Found	0.01 MG/M3
ACGIH TLV	Not Found	0.1 MG/M3
TOXICITY DATA	None	IMP-RAT TDLo: 2400 mg/Kg TFX:ETA
	None	MUL-RAT TDLo: 330 mg/Kg/43W-I TFX:ETA



MATERIAL SAFETY DATA SHEET

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: Not Regulated

UN ID NUMBER: -
PROPER SHIPPING NAME: -
CLASS OR DIVISION: -
SUB RISK: -
HAZARD LABEL(S): -
PACKAGING GROUP: -
LIMITED QUANTITY PKG INSTRUCTION: -
MAXIMUM LIMITED QUANTITY: -
SPECIAL PROVISIONS: -
ERG CODE: -
TRAINING: -
VARIATIONS: -

15. REGULATORY INFORMATION

PRODUCT RISK STATEMENTS: R22 Harmful if swallowed
R38 Irritating to skin
R25 Toxic if swallowed

PRODUCT SAFETY STATEMENTS: S24/25 Avoid contact with skin and eye

16. OTHER INFORMATION