



MATERIAL SAFETY DATA SHEET

Product: 45-0206
45-0139

Catecholamine Standard (Bottled and Boxed)

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: 1/17/2011

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		NFPA	HMIS
Eyes:	Irritant	HEALTH	2	2
Skin:	Irritant	FLAMMABILITY	0	0
Ingestion:	Irritant	REACTIVITY	0	0
Inhalation:	Irritant	NFPA SPECIAL	-	-
		HMIS PPE		

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	Dopamine	Epinephrine	Norepinephrine	Hydrochloric Acid
PERCENT (wt.)	< 1	< 1	< 1	1.0
CAS NO.	CAS # 62-31-7	CAS # 51-43-4	CAS # 55-27-6	CAS # 7647-01-0
EINECS NO.	No information found	No information found	No information found	231-595-7
RISKS	No information found	No information found	No information found	R34,R37
SAFETY	No information found	No information found	No information found	S26, S36/37/39,



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4. FIRST AID MEASURES

GENERAL: Remove contaminated clothing, wash thoroughly before reuse.

EYES: Flush with water for at least 15 minutes occasionally raising upper and lower eyelids.

SKIN: Remove contaminated clothing and flush with water thoroughly

INHALATION: Move to fresh air

INGESTION: If large amounts are swallowed, get medical help immediately. If patient is conscious, give large quantities of water

5. FIRE FIGHTING MEASURES

UNUSUAL FIRE AND EXPLOSION: Not Applicable

HAZARDS: Not Applicable

EXTINGUISHING MEDIA: Not Combustible

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 with sodium bicarbonate and 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: No

SKIN: Yes

INGESTION: Yes

HEALTH HAZARDS

ACUTE: May cause irritation of eyes and mucous membranes
Norepinephrine is considered a possible mutagen and possible teratogen.
CHRONIC: Epinephrine is toxic by inhalation, contact with skin, and if swallowed.
Epinephrine may cause birth defects.

VENTILATION

LOCAL EXHAUST: Good laboratory ventilation is acceptable.

MECHANICAL (GENERAL): Use in hoods 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: Clear liquid

ODOR: Odorless

pH: 1.0

MOLECULAR WEIGHT: Not Determined (mixture)

MELTING POINT: Not Applicable

BOILING POINT: Not Determined

AUTOIGNITION TEMPERATURE: Not Applicable

FLASH POINT: Not Applicable

LOWER EXPLOSION LIMIT: Not Applicable

UPPER EXPLOSION LIMIT: Not Applicable

SPECIFIC GRAVITY: Not Determined



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10. STABILITY & REACTIVITY

STABILITY/CONDITIONS TO AVOID: No Data Found
INCOMPATIBILITY (MATERIALS TO AVOID): Not Determined
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Emits toxic fumes under fire conditions.
HAZARDOUS POLYMERIZATION: Not Applicable

11. TOXICOLOGY INFORMATION

PRODUCT TOXICOLOGY INFORMATION:

SYMPTOMS AND SIGNS OF EXPOSURE: May severe damage to skin, 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: Not Applicable

RTECS #:

ACGIH TLV TWA: No data found

OSHA PEL: 7 mg/m³ Ceiling (as hydrochloric acid)

NTP: No data found

IARC Monographs: No data found

HAZARDOUS COMPONENT TOXICOLOGY INFORMATION:

Hazardous Components:	Hydrochloric Acid
RTECS #	MW4025000
OSHA PEL	C 7 mg/m ³
ACGIH TLV	No Data
TOXICITY DATA	



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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:

UN ID NUMBER: UN 1760
PROPER SHIPPING NAME: Corrosive liquid, n.o.s. (hydrochloric acid solution)
CLASS OR DIVISION: 8
SUB RISK:
HAZARD LABEL(S): Corrosive
PACKAGING GROUP: PG III
LIMITED QUANTITY PKG INSTRUCTION: Y841
MAXIMUM LIMITED QUANTITY: 1 L
SPECIAL PROVISIONS:
ERG CODE: 8L

15. REGULATORY INFORMATION

PRODUCT RISK STATEMENTS: R34, R37
PRODUCT SAFETY STATEMENTS: S26, S36/37/39

16. OTHER INFORMATION