



MATERIAL SAFETY DATA SHEET

Product: 70-5677

Metanephrine Standard (1.0 mg/mL)

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 | 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 | Acetic Acid | D-L-Metanephrine hydrochloride | D-L-Normetanephrine hydrochloride | Water |
|----------------------|------------------|--------------------------------|-----------------------------------|-----------------|
| PERCENT (%) | 1.2 | < 1.0 | < 1.0 | 98.0 |
| CAS NO. | CAS # 00064-19-7 | CAS # 881-95-8 | CAS # 1011-74-1 | CAS # 7732-18-5 |
| EINECS NO. | 200-580-7 | 230-468-3 | 213-787-2 | |
| RISKS | R10, R35 | R 36/37/38 | R36/37/38 | |
| SAFETY | S23, S26, S45 | S26, S37/39 | S26, S36 | |



MATERIAL SAFETY DATA SHEET

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:** Vapors may be irritating to respiratory system.
- INGESTION:** If large amounts are swallowed, get medical help immediately.

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.



MATERIAL SAFETY DATA SHEET

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ROUTES OF ENTRY

INHALATION: Yes

SKIN: Yes

INGESTION: Yes

HEALTH HAZARDS

ACUTE: Vapors may be irritating to skin, eyes, nose and throat.

CHRONIC: Chronic irritation of exposed tissues.

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: Vinegar odor

pH: 2.7

MOLECULAR WEIGHT: Not Determined (mixture)

MELTING POINT: Not Applicable (liquid)

BOILING POINT: 100 °C

AUTOIGNITION TEMPERATURE: Not Applicable (nonflammable)

FLASH POINT: Not Applicable (nonflammable)

LOWER EXPLOSION LIMIT: Not Applicable (nonflammable)

UPPER EXPLOSION LIMIT: Not Applicable (nonflammable)

SPECIFIC GRAVITY: 1.0



MATERIAL SAFETY DATA SHEET

10. STABILITY & REACTIVITY

STABILITY/CONDITIONS TO AVOID: This is a stable chemical
INCOMPATIBILITY (MATERIALS TO AVOID): No information found
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Not Determined
HAZARDOUS POLYMERIZATION: Not Applicable

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: Not Applicable

RTECS #: AF1225000 (acetic acid)

ACGIH TLV TWA: No data found

OSHA PEL: 25 mg/m³ TWA (acetic acid)

NTP: No data found

IARC Monographs: No data found

HAZARDOUS COMPONENT TOXICOLOGY INFORMATION:

| | |
|------------------------------|--------------------------|
| Hazardous Components: | Acetic Acid |
| RTECS # | AF1225000 |
| OSHA PEL | 25 mg/m ³ TWA |
| ACGIH TLV | No Data |
| TOXICITY DATA | No Data |



MATERIAL SAFETY DATA SHEET

12. ECOLOGICAL INFORMATION

No information is found on environmental toxicity for this compound.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

IATA CLASSIFICATION:

UN ID NUMBER: Not Regulated

PROPER SHIPPING NAME:

CLASS OR DIVISION:

SUB RISK:

HAZARD LABEL(S):

PACKAGING GROUP:

LIMITED QUANTITY PKG INSTRUCTION:

MAXIMUM LIMITED QUANTITY:

SPECIAL PROVISIONS:

ERG CODE:

15. REGULATORY INFORMATION

PRODUCT RISK STATEMENTS: R5, R8, R10, R35

PRODUCT SAFETY STATEMENTS: S23, S26, S45, S36

16. OTHER INFORMATION