

Material Safety Data Sheet
Version No.: 1.0(Rev.date 2012-09-10)**50X TAE**

1. Product and Company Information

Product Name : 50X TAE

Recommended Use : For Research Use Only

Supply Information

 Company : Bioneer Address : 8-11 Munpyeongseo-ro, Daedeok-gu, Daejeon 34302, Republic of Korea Emergency telephone number : 82-42-930-8777

2. Hazards Identification

GHS-Classification

Classification of the hazardous chemical

Skin corrosion/Skin irritation : Category 2

Serious eye damage/eye irritation: Category 2

Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statements

H315 Causes skin irritation. H319 Causes serious eye irritation.

Precautionary statements

P201 Obtain special instructions before use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P302+P350 If on skin, Gently wash with plenty of soap and water.

P304+P340 If inhaled, Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 If in eye, Rinse cautiously with water for several minutes. Continue washing.

3. Composition/Information on ingredients

Chemical name	Synonyms	CAS No.	Weight(%)
Trizma base		77-86-1	20~40%
Ethylenediaminetetraacetic acid		6381-92-6	1~5%
Glacial acetic acid		64-19-7	5~10%
Water		7732-18-5	30~45%

4. Composition/Information on ingredients

- . Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes.
- . Skin Contact : Rinse thoroughly with plenty of water for at least 15 minutes.
- . Inhalation : Move to fresh air. If breathing is difficult, give oxygen.
- . Ingestion : Rinse around the mouth with water.
- . The most important acute and delayed symptoms/effects : Not information available
- . Notes to Physician : Not information available

5. Fire-fighting measures

- . Suitable Extinguishing Media : Water-spray, Dry chemical, CO2.
- . Flammable Properties : Generate toxic gas during combustion.
- . Protective Equipment and Precautions for Firefighters : As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

6. Accidental release measures

- . Personal Precautions : Wear respirator, safety goggles, boots, thick gloves.
- . Environmental precautions : Absorb the sand or vermiculite. Store in a sealed container for disposal.
- . Methods for cleaning up : Cover with dry limbs or soda ash. Wash contaminated area.

7. Handling and Storage

- . Handling : Do not breathe vapours. Keep away from contact with eye, skin, cloth.
- . Storage : Store at room temperature.

8. Exposure control/personal protection

- . Chemical exposure limits, biological exposure limits etc. : No data available
- . Engineering Measures : Keep adequate ventilation in small space.
- . Personal Protective Equipment
Respiratory Protection : Wear respiratory mask approved by KOSHA(Korea Occupation Safety Health Agency).

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Eye/Face Protection : Wear Chemical Safety protective goggle or glasses approved by KOSHA(Korea Occupation Safety Health Agency).

Skin Protection : Wear Chemical Safety gloves approved by KOSHA(Korea Occupation Safety Health Agency).

Body Protection : Wear protective clothes approved by KOSHA(Korea Occupation Safety Health Agency).

9. Physical and chemical properties

- . Appearance : Liquid, transparentness
- . Odor : No data available
- . Odor threshold : No information available
- . pH : No information available
- . Melting point/Freezing point : No information available
- . Initial boiling point/range : No information available
- . Flash point : No information available
- . Evaporation rate : No information available
- . Flammability (Solid,Liquid) : No information available
- . Flammability Limits upper/lower : No information available
- . Vapor pressure : No information available
- . Solubility : No information available
- . Vapor density : No information available
- . Viscosity : No information available
- . n octanol/water : No information available
- . Autoignition temperature : No information available
- . Decomposition temperature : No information available
- . Specific gravity : No information available
- . Molecular weight : No information available

10. Stability and Reactivity

- . Stability : Stable under recommended storage conditions.
- . Possibility of harmful response : No information available
- . Conditions to avoid (electric discharge, impact, vibration etc) : No information available
- . Material to avoid : No information available
- . Hazardous Decomposition Products : Carbon oxides,Nitrogen oxides

11. Toxicological information

- . Principle routes of exposure
 - Respiratory: Toxic if inhaled.
 - Dermal : Toxic if swallowed.
 - Eye/Skin : Causes eye irritation skin and Can be harmful if absorbed in contact with skin.
 - . Health effects
 - Acute toxicity : No data available
 - Skin corrosive or irritant : Can be skin irritation.
 - Serious eye damage or irritant : Can be eye irritation .
 - Respiratory irritability : No data available
 - Skin irritability : No data available
 - Carcinogenicity : No data available
 - Germ cell mutagenicity : No data available
 - Reproductive toxicity : No data available
 - Specific target organ toxicity (single exposure) : No data available
 - Specific target organ toxicity (repeated exposure) : No data available.
 - Aspiration Hazard : No data available
 - . Numerical measures of toxicity(Acute toxicity estimates etc) : No data available
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12. Ecological Information

- . Ecotoxicity effects: No data available
 - . Residual and degradability : No data available
 - . Bioaccumulation : No data available
 - . Mobility : No data available
 - . Other harmful effects : No data available
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13. Disposable considerations

- . Waste disposal method : No data available.
 - . Contaminated packaging : Dispose contents and vessel in accordance with regulation by the waste disposal law.
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14. Transport Information

- . UN Number : No data available.
 - . UN Proper Shipping Name : No data available.
 - . Transport hazard class : No data available.
 - . Packing group : No data available.
 - . Marine pollutant : No data available.
 - . The special vehicle Safety measures : No data available.
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15. Regulatory information

- . Regulation by Industrial safety and health act : Not information available
 - . Regulation by toxic chemicals control act : Not information available
 - . Regulation by Safety control of dangerous substance act : Not information available
 - . Regulation by the waste control act : Not information available
 - . Regulation by other domestic and foreign regulatory : Not information available
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16. Other information

Bioneer Corporation makes no warranty or representation to its completeness, accuracy or currency. This material is intended for use by persons with pertinent technical skills and at their discretion and risk. It is the responsibility of the user to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. Disposal of hazardous material may be subject to federal, state or local laws or regulations.
