

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

10X MOPs buffer

1. Product and Company Information

Product Name : 10X MOPs buffer

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 irritation : Category 2

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

P264 Wash... thoroughly after handling.

P270 Do not eat, drink or smoke when using the product.

P280 Wear protective gloves/protective clothing.

3. Composition/Information on ingredients

Chemical name	Synonyms	CAS No.	Weight(%)
MOPs		1132-61-2	20~30%
EDTA		6381-92-6	20~30%
Sodium acetate		127-09-3	10~20%
Water		7732-18-5	10~20%

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 : Do not feed anything by mouth to an unconscious person.
- . 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 : No information available
- . 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 : Remove all sources of ignition. Stop the leakage if not dangerous.
- . Environmental precautions : Absorb the sand or vermiculite. Prevent entering from waterway, drain, basement, close space.
- . Methods for cleaning up : Wash contaminated area with plenty of water if small spillage. Absorb with sand, non-combustible material and Put in a container.

7. Handling and Storage

- . Handling : Do not breathe vapours. Wash thoroughly after handling.
- . Storage : Store in tightly closed. Store at room temperature. Store in a dry, well-ventilated area.

8. Exposure control/personal protection

- . Chemical exposure limits, biological exposure limits etc. : No information available.
- . Engineering Measures : No information available.
- . Personal Protective Equipment
 - Respiratory Protection : Wear respiratory mask approved by KOSHA(Korea Occupation Safety Health Agency).
 - 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

- . Apperance : Liquid
- . 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) : Heat,spark,flame
- . Material to avoid : Combustible materials
- . Hazardous Decomposition Products : No information available

11. Toxicological information

- . Principle routes of exposure
 - Respiratory: It can irritate respiratory system but is low risk.
 - Dermal : No information available
 - Eye/Skin : No information available

. Acute toxicity

Respiratory irritability : No data available

Skin irritability : Can be caused by skin irritation

Serious eye damage/eye irritation : Can be caused by eye irritation

Respiratory irritability : No data available

Skin irritability : No data available

Carcinogenicity : No data available

Germ cell mutagenicity : in vivo mouse erythrocyte micronucleus test – negative

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

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

13. Disposable considerations

. Waste disposal method : Dispose of material in accordance with formally disposal company.

. Contaminated packaging : Dispose contents and vessel in accordance with regulation by the waste disposal law.

14. Transport Information

. UN Number : Not applicable

. UN Proper Shipping Name : Not applicable

. Transport hazard class : Not applicable

. Packing group : Not applicable

. Marine pollutant : Not applicable

. The special vehicle Safety measures : Not applicable

15. Regulatory information

. Regulation by Industrial safety and health act : No data available

. Regulation by toxic chemicals control act : No data available

. Regulation by Safety control of dangerous substance act : No data available

. Regulation by the waste control act : No data available

. Regulation by other domestic and foreign regulatory : No data available

16. Other information

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