

Material Safety Data Sheet

Version No.: 1.0(Revision 2012-11-30)

S. pombe Deletion Mutant Library

1. Chemical Product and Company Identification

Product Name

s.pombe deletion library (yeast), Active Plasmid

Company Name & Address

Bioneer Corporation

49-3, Munpyeong-dong,

Daedeok-gu, Daejeon 306-220

Korea

Tel.: +82-42-930-8508 Fax: +82-42-930-8600

NOTE: If this product is a kit or is supplied with more than one material, please refer to the MSDS for each component for hazard information.

Product USE:

This products are for laboratory research use only and are not intended for human or animal diagnostics, therapeutic, or other clinical use

2. Hazards Identification

<Emergency Overview>

Occupational exposure presents little or no health hazard

Potential Health Effects:

Eye:

May cause irritation of the eye.

Skin:

May cause skin irritation.

Inhalation:

No toxicity expected from inhalation.

Ingestion:

Mildly irritating to mouth, throat, and stomach. Can cause abdominal discomfort.

Chronic:

No data on cancer.

3. Composition/Information on Ingredients

The following list shows components of this product classified as hazardous based on physical properties and health



effects:

Component CAS NO. Percent

No hazardous components.

4. First-Aid Measures

Eye:

Fluse with water in an eyewash for at least 15minutes, holding eyelids open. Remove contact lenses, clean before reuse. Obtain medical attention if symptoms develop(redness, itching, etc.)

Skin:

Wash with plenty of soap and water. Obtain medical attention if symptoms develop(redness, itching, etc.). Remove contaminated Clothes, wash before re-use.

Inhalation:

Remove person to fresh air. Obtain medical attention unless effects are mild and temporary.

Ingestion:

Give plenty of water, if conscious. If vomiting coours naturally, wash mouth out. Be prepared to induce vomiting upon a physician's advice. Obtain medical attention if symptoms develop.

Note to Physicain: Treat symptomatically.

5. Fire-Fighting Measures

GFlashpoint Deg C: Not Available
Upper Flammable Limit %: Not Available
Lower Flammable Limit %: Not Available
Autoignition Temperature Deg C: Not Available

Extinguishing Media:

Use means appropriate for surrounding materials.

Firefighting Techniques / Equipment:

Standard turnout gear ("bunker gear'). Positive-pressure self-contained

Breathing apparatus.

Hazardous Combustion Products:

Includes carbon dioxide, carbon monoxide, dense somke

6. Accidental Release Measures

Accidental releases may be subject to special reporting requirements and other regulatory mandates. Refer to section 8 personal protection equipment recommendations.

Spill Cleanup:

Absorb spill: Common absorbent materials should be effective. Deposit in appropriate containers for removal and disposal.

7. Handling and Storage

Storage of some material is regulated by federal, state, and /or local laws.

Storage pressure: Ambient

Handling Precedures: Keep closed or covered when not in use.



Storage Procedures: Suitable for most general chemical storage areas.

8. Exposure Controls and Personal Protection

Exposure limits

Component OSHA PEL AGCIH TWA
No Hazardous components (ppm) (ppm)

Engineering Controls:

Area ventilation is generally adequate.

Personal Protective Equipment

Eye

Safety goggles (glasses).

Skin:

Protective gloves, a lab coat.

Respiratory:

No respiratory protection will be needed under normal industrial operating conditions.

9. Physical and Chemical Properties

Apperance / physical state: Liquid solution / suspension

Odor: No odor

Not established. Not established. Not established.

Specific Gravity / Density: 1.00

Octanol / water partition coeff: Not established.

Volatiles: Not established.

Evaporation Rate: 0.3 (BUTYLY Acetate = 1.0)

Viscosity: 0.98 cp at 20C

10. Stability and Reactivity

Stability

Stable under ordinary conditions of use and storage.

Conditions to Avoid: Strong oxidizers.
Hazardous Decomposition Prodects:
Carbon monoxide. Carbon dioxide.

Harzardous Polymerization: Not expected to occur.

11. Toxicological Information

Acute Toxicity:

Dermal/Skin: Not determined.

Inhalation/Respiratory: Not determined.

Oral / Ingestion: Not determined. Target Organs: No data found.

Carcinogenicity:
NTP: Not tested

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IARC: Not listed
OSHA: Not regulated.

Other Toxicological Information

12. Ecological Information

No data available.

13. Disposal Consideration

Burn the material in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal state and local environmental regulations.

14. Trnasport Information

Not regulated.

15. Regulatory Information

UNITED STATES:

TSCA:

This product is solely for research and development purpose only and may not be used, processed of distributed for a commercial purpose. It may only be handled by technically qualified individuals.

Prop 65 Listed Chemicals: PROP 65 PERCENT

No Prop 65 Chemicals. No 313 Chemicals.

CANADA

DSL/NDSL: Not determined.

Component WHMIS Classification

No Hazardous components

EUROPEAN UNION:

Product risk phrases: None assigned.

Product safety phrases: Not applicable.

Product Classification : Not Classification as hazardous

Component EINECS Number

No hazardous components

16. Other Information

HMIS Rating 0-4:
Fire: Not Determined
Health: Not Determined
Reactivity: Not Determined

Abbreviations

N/A - Data is not applicable or not available SARA - Superfund and Reauthorization Act HMIS - Hazard Material Information System





WHMIS - Workplace Hazard Material Information System

NTP - National Toxicology Program

OSHA - Occupational Agency for Research on Cancer

IARC - International Agency for Drinking Water and Toxic Enforcement Act of 1986

PROP 65- California Inventory of Existing Commercial Chemical Substances

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features. BIONEER is not held liable for any damage resulting from handling or from contact with the above p handling or from contact with the above product.