

Material Safety Data Sheet

EndoPorter

Revision Date: 12 Jun 2009

Section 1: Product and Company Identification

Product Name: Endo-Porter

Company: Gene Tools, LLC
1001 Summerton Way
Philomath, OR 97370
USA

Telephone: +1 541-929-7840

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Section 2: Composition/Information on Ingredients

Chemical Name: short chain polypeptide

Chemical Formula: N/A

CAS #: None assigned

SARA 313: no

Ingredient Name	CAS-No.	EC-No.	Concentration [%]
Polypeptide	none	none	<1%
Dimethyl Sulfoxide	67-68-5	200-664-3	>99%

Section 3: Hazardous Identification

Emergency Overview (applies to DMSO ingredient only):

OSHA Hazards

Combustible Liquid
Delayed target organ effects
Mild skin irritant
Mild eye irritant

HMS Classification

Health Hazard: 1
Flammability: 2
Physical Hazards: 0

NFPA Rating

Health Hazard: 1
Fire: 2
Reactivity Hazard: 0

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

Section 4: First Aid Measures

General advice

Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eye with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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Section 5: Fire-Fighting Measures

Flammable properties

Flash Point: 87C (189° F) – closed cup

Ignition temperature 301C (574° F)

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental Release Measures

Personal precautions

Avoid breathing vapors, mist or gas.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Handling

Keep away from sources of ignition – No smoking. Take measures to prevent the build up of electrostatic charge.

Storage

Keep container tightly closed in a dry and well-ventilated place.

Section 8: Exposure Controls / Personal Protection

Contains no substances with occupational exposure limit values.

Respiratory protection

Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves

Eye protection

Safety glasses

Hygiene measures

General industrial hygiene practice.

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Section 9: Physical and Chemical Properties

Appearance

Form liquid, clear
Color colorless

Safety data

pH no data available
melting point 18.4C (65.1F)
boiling point 189C (372F) at 1013 hPa (760 mmHg)
flash point 87C (189F) – closed cup
ignition temperature 301C (547F)
lower explosion limit 3.5%(V)
upper explosion limit 42%(V)
vapor pressure 0.55 hPa (0.41 mmHg) at 20C (68F)
density 1.1 g/cm³
water solubility completely miscible
partition coefficient
(n-octanol/water) log Pow: -2.03

Section 10: Stability and Reactivity

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Acid chlorides, phosphorus halides, strong acids, strong oxidizing agents, strong reducing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions
Carbon oxides, sulphur oxides

Section 11: Toxicological Information

Acute toxicity (Applies to DMSO ingredient only)

LD50 Oral – rat – 3,300 mg/kg
LC50 Inhalation – rat – 4 h – 40250 ppm
LD50 Dermal – rabbit - >5,000 mg/kg

Irritation and corrosion (Applies to DMSO ingredient only)

Skin – rabbit – Mild skin irritation – 24 h
Eyes – rabbit – Mild eye irritation

Sensitization

No data available

Chronic exposure

No data available

Potential Health Effects (Applies to DMSO ingredient only)

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.
Target Organs Eyes, Skin

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Section 12: Ecological Information

Elimination Information (persistence and degradability)

No data available

Ecotoxicity effects (Applies to DMSO ingredient only)

Toxicity to fish LC50 – Pimephales promelas (fathead minnow) – 34,000 mg/l – 96 h
LC50 – Oncorhynchus mykiss (rainbow trout) – 35,000 mg/l – 96 h
EC50 – Lepomis macrochirus (bluegill) - >400,000 mg/l – 96 h

Toxicity to daphnia EC50 – Daphnia pulex (water flea) – 27,500 mg/l
And other aquatic
Invertebrates

Further information on ecology

No data available

Section 13: Disposal Considerations

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

Section 15: Regulatory Information

OSHA Hazards

Combustible Liquid, Delayed target organ effects, Mild skin irritant, Mild eye irritant

TSCA Status

DMSO on TSCA Inventory

DSL Status

DMSO is on the Canadian DSL list

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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Section 15: Regulatory Information (Cont.)

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know Components

No Components Listed

Pennsylvania Right to Know Components

Dimethyl sulfoxide

New Jersey Right to Know Components

Dimethyl sulfoxide

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Section 16: Other Information

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