



SAFETY DATA SHEET

Revision Date 8/2/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identification

Product Name : Leu-Enkephalin - Undiluted Antiserum for Immunohistochemistry, Host: Rabbit
Product Code : T-4290.0050
CAS-No. : N/A

1.2 Company Identification

Peninsula Laboratories International, Inc.
305 Old County Road
San Carlos, CA 94070
USA

Telephone : (650) 801-6090
Fax : (650) 595-4071

Emergency : (650) 801-6090 (8:30am-5pm Pacific Time)

1.3 Recommended use and Restrictions on use

Laboratory reagent, Research Use Only

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Synonym : Serum

No ingredients are hazardous according to OSHA criteria.

No components need to be disclosed according to the applicable regulations.

4. FIRST-AID MEASURES

4.1 Description of First Aid Measures

Inhalation: 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 eyes with water as a precaution.

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



4.2 Most important Symptoms/Effects, acute and delayed

See section 2.2 and/or section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing agents

Suitable extinguishing agents: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides.

5.3 Advice for firefighters

Wear self-contained respiratory protective device for firefighting if necessary.

5.4 Further information:

No data available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist, or gas.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleanup

Sweep up and shovel. Keep in suitable, closed container for proper disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.
For precautions, see section 2.2

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, well-ventilated place.
Recommended Storage temperature: -20C.

7.3 Specific end use(s)

Apart from uses listed in Section 1.3, no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.



8.2 Exposure Controls

Appropriate engineering controls - General industrial hygiene practice.

Personal protective equipment - Avoid all unnecessary exposure by using the following equipment:

Eye/face protection Chemical goggles or face shield.

Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Other information Do not eat, drink, or smoke during use.

Control of environmental exposure - Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	: Solid
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point/ Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Vapor density	: No data available
Relative density	: No data available
Solubility	: Soluble in water
Log Pow	: No data available
Log Kow	: No data available
Viscosity	: No data available



Explosive properties : No data available

Oxidizing properties : No data available

Explosive limits : No data available

9.2 Other safety information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Other decomposition products - no data available.
In the event of fire, see section 5

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

No data available.

Inhalation: no data available

Dermal: no data available

Ingestion: no data available

Skin corrosion

No data available.

Serious eye damage/irritation

No data available.

Respiratory or skin sensitization

No data available.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.



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NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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.

Additional information

RTECS: Not available.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It is the users' responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. Peninsula Laboratories International, Inc. shall not be held liable for any damage resulting from the handling of the above product.