

CELL THERAPEUTICS

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Date Issued: 10/29/93 DOT Emergency Telephone: (206) 910-0872
 Date Revised: 8/4/98 National Response Center (800) 424-8802
 Reviewed By: Alistair Leigh, Ph.D.

MATERIAL SAFETY DATA SHEET

IDENTIFICATION

Name: 1-(5-(R)-hydroxyhexyl)-3,7-dimethylxanthine;
 (R)-1-(5-hydroxyhexyl)-3,7-dimethylxanthine;
 (R)-3,7-dihydro-1-(5-hydroxyhexyl]-3,7-dimethyl-1H-purine-2,6-dione

CAS Number: 100324-81-0

Elemental Formula: C₁₃H₂₀N₄O₃

Molecular Weight: 280.33

Common Name: Lisofylline, CT-1501R, 1-[(R)-5-hydroxyhexyl] theobromine

Other: Caution: New Drug-Limited by Federal (or United States) law to
 investigational use.
 FDA Entry Inspection Code - 62GIS99
 IND #'s - 43,781 and 41, 928

HEALTH HAZARD DATA

Acute Effects: Harmful if swallowed.
 May be harmful if inhaled.
 May be harmful if absorbed through the skin.
The toxicological properties have not been thoroughly investigated.

First Aid: If swallowed, wash out mouth with water provided person is conscious.
 Call a physician.

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

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Toxicity Hazards: 1501R has the following toxicological profile:

Oral mouse	LD ₂₀	1000 mg / kg
Oral dog	LD ₁₀	>>300 mg / kg (no deaths at 300 mg / kg)
Rat QID, IV (female)	LD ₅₀	290 – 320 mg / kg
Rat QID, IV (male)	LD ₅₀	250 – 265 mg / kg
Rabbit maximum tolerated dose, QID, IV		160 mg / kg
Monkey maximum tolerated dose, QID, IV		120 mg / kg
Guinea pig delayed contact hypersensitivity		= negative
Guinea pig antigenicity		– did not exhibit systemic anaphylaxis reactions.
Rabbit local tolerance		– minimal potential to cause irritation IV or IP.
Rat teratology		– no evidence of embryoletality or teratogenicity at dosages up to 125 mg / kg / dose.
Rabbit teratology		– no evidence of teratogenicity at dosages up to 60 mg / kg / dose and no evidence of embryo / fetotoxicity at dosages up to 15 mg / kg / dose.
Ames test		= negative in presence and absence of Liver S9

PHYSICAL DATA

Flash Point:	N/A
Melting Point:	110-116 °C
Appearance:	Solid white powder or crystals
Other:	Water soluble

FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:	Carbon dioxide, dry chemical powder, Halon or appropriate foam.
Fire Fighting Procedures:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

REACTIVITY DATA

Stability:	Stable
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MATERIAL SAFETY DATA SHEET

Name: 1-(5-(R)-hydroxyhexyl)-3,7-dimethylxanthine

**Hazardous
Combustion or
Decomposition**

Products: Toxic fumes of carbon monoxide, carbon dioxide and nitrogen oxides.

**Hazardous
Polymerization:**

Will not occur.

SPILL OR WASTE PROCEDURES

Procedures: Wear protective equipment.
If liquid, ventilate area and wash spill site with water.
If powder, avoid raising dust and use a nuisance dust respirator.
Dispose of waste in accordance with local, state and federal regulations.

Waste Disposal: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

**Personal Protective
Equipment:**

Wear appropriate NIOSH/MSHA-approved respirator when handling large quantities.
Use chemical resistant gloves, safety goggles, other protective clothing.
Mechanical exhaust suggested when handling large quantities.

PRECAUTIONARY STATEMENTS

Label: Harmful.
Harmful if swallowed.
Wear suitable protective clothing.

EUROPEAN LABEL

Label: Harmful.
Risk Phrases: Harmful by inhalation and if swallowed R20/22
Safety Phrases: Wear suitable protective clothing S36.

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NFPA INFORMATION

Health Hazard: 1
Fire Hazard: 0
Reactivity Hazard: 0
Other:

IATA / DOT / SHIPPING INFORMATION

Proper shipping name: Not Restricted
Labels: Not Restricted

The shipping data is meant as a guide to the overall classification of the product and is not package size specific, nor should it be taken as a warranty or representation for which the company assumes legal responsibility.

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