

Material Safety Data Sheet

Revision: 11/03/2003



Hazard information is provided for compliance with both the UK Chemicals (Hazard Information and Packaging) (CHIP) Regulations and the US Hazard Communication Standard (HCS)

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT NAME:
Streptozotocin

PRODUCT CODE:
21870

EEC NUMBER:
242-646-8

SUPPLIER:

USB Corporation, 26111 Miles Road, Cleveland, Ohio 44128 Phone: (216) 765-5000

Emergency Contact:

Chemtrec (800) 424-9300
Outside USA & Canada 703 527 3887

COMPOSITION/HAZARDOUS COMPONENTS

HAZARD

CAS NO.

%WT

TLV

CHIP R & S Phrases

Streptozotocin

18883-66-4

~97%

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R:45 May cause cancer.
S:22 Do not breathe dust.
S:36/37 Wear suitable protective clothing and gloves.
S:53 Avoid exposure - Obtain special instructions before use.

HAZARDS IDENTIFICATION

CHIP

Toxic. Carcinogen, Category 2.

HCS

Toxic. Group 2B Carcinogen.

FIRST-AID MEASURES

EYES: Flush with water for 15 minutes. Seek medical advice if irritation persists.

SKIN: Flush with water, then wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek immediate medical attention.

INHALATION: Remove the victim from exposure and move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Seek immediate medical attention.

INGESTION: Drink water and seek immediate medical attention. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person.

FIRE-FIGHTING INFORMATION

Use media suitable to extinguish the supporting or surrounding fire. Wear NIOSH (or equivalent) approved self contained breathing apparatus. Emits toxic fumes under fire conditions. For small fires only: use carbon dioxide, dry powder or foam.

Flash Point: No data available.

ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment and clothing including lab coat, safety glasses, gloves and NIOSH-approved respirator. Collect in a manner that does not create dust and place in a suitable waste container. Avoid contact of material with skin or eyes. Use adequate ventilation. To safely deactivate small quantities use sulfamic acid at a ratio of 0.5 gm sulfamic acid / 3 ml water.

HANDLING AND STORAGE

Wear appropriate personal protective equipment and clothing including lab coat, safety glasses, gloves and NIOSH-approved respirator. Avoid contact of material with skin or eyes. Keep container tightly closed. Light sensitive. Store at +4°C away from incompatible substances.

This data sheet is based upon information believed to be reliable. The Company makes no statement or warranty as to the accuracy or completeness of the information contained herein which is offered for your consideration, investigation and verification. Any use of the information contained in this data sheet must be determined by the user to be in accordance with appropriate applicable regulations.

For Further Information, contact your local USB authorized distributor, Amersham Pharmacia Biotech	Asia Pacific +852 2811 8693	Canada 1 800 463 5800	Former Soviet Union +7 (095) 232 0250	Japan 81 3 5331 9337	Norway 63 89 23 10	Spain 935 944 950	USA USB Corporation (216) 765-5000 If purchased from Amersham Pharmacia Biotech use 1 800 526 3593
	Australia +61 2 9894 5188	Central and East Europe +43 1 982 3826	France 0169 18 28 00	Latin America +55 11 3667 5700	Portugal 01 417 70 35	Sweden 018 164000	
	Austria 01 576 0616 10	Denmark +45 4516 2400	Germany 07 61 49 03 0	Middle East and Africa +30 (1) 96 00 687	South East Asia 60 3 724 2080	Switzerland 01 802 81 50	
	Belgium 0800 73888	Finland 358 (9) 512 3940	Italy 02 27322 1	Netherlands 0165 580 410	South East Europe +43 (1) 982 3826	UK 0800 515313	

MSDS information may be continued on back of page.

PERSONAL PROTECTION

Wear appropriate personal protective equipment and clothing including lab coat, safety glasses, gloves and NIOSH-approved respirator. A qualified industrial hygienist should evaluate the need for respiratory protection. Use respiratory protection approved by NIOSH (or equivalent) and appropriate to the hazard. Avoid contact of material with skin or eyes. Mechanical ventilation or local exhaust as needed to control exposure to dust, vapors or mists. Access to a safety shower and eye-wash.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to off-white crystalline powder
Boiling Point: No data available
Vapor Pressure: No data available
Vapor Density: No data available
Solubility (Water): Soluble
Specific Gravity: No data available
Percent Volatile: No data available
Evaporation Rate: No data available
Chemical formula: C18-H15-N3-O7
Melting Point: 115°C

STABILITY AND REACTIVITY

Product is stable under normal conditions. Light sensitive. Hazardous decomposition products include carbon and nitrogen oxides. Incompatible with strong oxidizing agents, strong acids and strong bases. Hazardous polymerization will not occur.

TOXICOLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE:

EYES: Contact may cause irritation.

SKIN: Contact may cause irritation. May be harmful if absorbed through the skin.

INHALATION: May be harmful if inhaled. Material is irritating to the tissue of the mucous membranes and upper respiratory tract.

INGESTION: May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause anemia, leukopenia, and thrombocytopenia. May cause systemic effects including renal dysfunction and impaired liver function.

ADDITIONAL INFORMATION:

Cancer suspect agent. May cause cancer in humans. May cause adverse reproductive effects based upon animal studies. May cause liver and kidney damage.

TARGET ORGAN(S): Kidneys, liver.

Reproductive, mutation, toxicity and tumorigenic data listed in RTECS under LZ5775000.

Tumorigenic: neoplastic by RTECS criteria (1978).

equivocal tumorigenic agent by RTECS criteria (1978).

carcinogenic by RTECS criteria (1985).

Reproductive: Specific Developmental Abnormalities - cardiovascular system (1988), craniofacial (including nose and tongue) (1988), endocrine system (1970), Central Nervous System (1977), musculoskeletal system (1984).

Effects on Embryo or Fetus - extra-embryonic structures (e.g., placenta, umbilical cord) and fetotoxicity (except death, e.g., stunted fetus) (1986).

Maternal Effects - ovaries, fallopian tubes (1983).

Effects on Newborn - growth statistics (e.g.%, reduced weight gain) (1970).

Fertility - post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants) (1987).

Carcinogenicity data:

IARC Cancer Review: Animal - Sufficient Evidence (1978).

Human - No Adequate Data (1978).

Group 2B - Possibly Carcinogenic (1987).

NCI Carcinogenesis Studies (ipr); clear evidence: mouse, rat. (1975).

NTP 9th Report on Carcinogens, 2000 : Reasonably anticipated to be a human carcinogen.

Definition(s): RTECS = Registry of Toxic Effects of Chemical Substances.

IARC = International Agency for Research on Cancer.

NCI = National Cancer Institute.

NTP = National Toxicology Program Annual Report on Carcinogens.

ECOLOGICAL INFORMATION

No information available.

DISPOSAL CONSIDERATIONS

Dispose of material in accordance with applicable local, state, and federal regulations. To safely deactivate small quantities use sulfamic acid at a ratio of 0.5 gm sulfamic acid / 3 ml water.

TRANSPORTATION INFORMATION

US DOT / IATA: No applicable information.

REGULATORY INFORMATION

RCRA - Hazardous Waste Number U206.

SARA 302 - Final RQ = 1 lb. This material does not have a TPQ.

SARA 313 - This material is not reportable under 313.

EPA TSCA Section 8(b) - No applicable information.

Exposure Limits - Not established.

California Proposition 65 - This product is or contains chemical(s) known to the State of California to cause cancer. This product is or contains chemical(s) known to the State of California to cause birth defects or other reproductive harm.