Valid 02/1999 - 04/1999

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MATERIAL SAFETY DATA SHEET

SECTION 1. --- --- --- --- --- CHEMICAL IDENTIFICATION--- --- --- --- ---
CATALOG #: G8270
NAME: D-(+)-GLUCOSE

SECTION 2. --- --- --- COMPOSITION/INFORMATION ON INGREDIENTS --- --- ---
CAS #: 50-99-7
MF: C6H12O6
EC NO: 200-075-1
SYNONYMS
ANHYDROUS DEXTROSE * CARTOSE * CEREOSE * CORN SUGAR * DEXTROPUR * 
DEXTROSE * DEXTROSE, ANHYDROUS * DEXTROSOL * GLUCOLIN * GLUCOSE *
GLUCOSE, ANHYDROUS * D-GLUCOSE, ANHYDROUS * GLUCOSE LIQUID * GRAPE 
SUGAR * SIROP * SUGAR, GRAPE *

SECTION 3. --- --- --- --- --- HAZARDS IDENTIFICATION --- --- --- --- ---
DATA NOT AVAILABLE

SECTION 4. --- --- --- --- --- FIRST-AID MEASURES--- --- --- --- --- ---
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF 
WATER FOR AT LEAST 15 MINUTES. 
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS 
AMOUNTS OF WATER. 
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL 
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. 
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. 
CALL A PHYSICIAN. 
WASH CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 5. --- --- --- --- --- FIRE FIGHTING MEASURES --- --- --- --- ---
EXTINGUISHING MEDIA
WATER SPRAY. 
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO 
PREVENT CONTACT WITH SKIN AND EYES.
UNUSUAL FIRE AND EXPLOSIONS HAZARDS 
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. --- --- --- --- --- ACCIDENTAL RELEASE MEASURES--- --- --- --- ---
CHEMICAL SAFETY GOGGLES. 
USE PROTECTIVE CLOTHING, GLOVES AND MASK. 
Sweep up, place in a bag and hold for waste disposal. 
AVOID RAISING DUST. 
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. --- --- --- --- --- HANDLING AND STORAGE--- --- --- --- --- ---
REFER TO SECTION 8.

SECTION 8. --- --- --- EXPOSURE CONTROLS/PERSONAL PROTECTION--- --- --- 
CHEMICAL SAFETY GOGGLES. 
COMPATIBLE CHEMICAL-RESISTANT GLOVES. 
NIOHSH/MSHA-APPROVED RESPIRATOR IN NONVENTILATED AREAS AND/OR FOR 
EXPOSURE ABOVE THE ACGIH TLV. 
SAFETY SHOWER AND EYE BATH. 
MECHANICAL EXHAUST REQUIRED. 
DO NOT BREATHE DUST. 
DO NOT GET IN EYES, ON SKIN, ON CLOTHING. 
WASH THOROUGHLY AFTER HANDLING.
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.

SECTION 9. - - - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - - -
APPEARANCE AND ODOR
FINE WHITE CRYSTALS
PHYSICAL PROPERTIES
MELTING POINT: 153 C TO 156 C

SECTION 10. - - - - - - - - - - STABILITY AND REACTIVITY - - - - - - - -
INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE

SECTION 11. - - - - - - - - - - TOXICOLOGICAL INFORMATION - - - - - - - -
ACUTE EFFECTS
MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
MAY CAUSE IRRITATION.
RTECS #: LZ6600000
D-GLUCOSE

TOXICITY DATA
ORL-RAT LD50:25800 MG/KG
IFR-MUS LD50:18 GM/KG
IVN-MUS LD50:9 GM/KG
85AIAL -,39,1973
PSEBAA 35,98,1936
ARZNAI 18,666,1968

TARGET ORGAN DATA
MATERIAL EFFECTS (OTHER EFFECTS ON FEMALE)
EFFECTS ON FERTILITY (POST-IMPLANTATION MORTALITY)
EFFECTS ON EMBryo OR FETUS (OTHER EFFECTS TO EMBryo OR FETUS)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (CRANIOFACIAL)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (HEPATOBILIARY SYSTEM)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (UROGENITAL SYSTEM)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (OTHER DEVELOPMENTAL ABNORMALITIES)
EFFECTS ON NEWBORN (BIOCHEMICAL AND METABOLIC)
EFFECTS ON NEWBORN (BEHAVIORAL)
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
COMPLETE INFORMATION.

SECTION 12. - - - - - - - - - - ECOLOGICAL INFORMATION - - - - - - - -
DATA NOT YET AVAILABLE.

SECTION 13. - - - - - - - - - - DISPOSAL CONSIDERATIONS - - - - - - - -
DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A
CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. - - - - - - - - - - TRANSPORT INFORMATION - - - - - - - -
CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - - - - - - REGULATORY INFORMATION - - - - - - - -
REVIEWS, STANDARDS, AND REGULATIONS
OEL-MAK
NOHS 1974: HZD 81836; NIS 117; TNF 16738; NOS 90; TNE 136870
NOES 1983: HZD 81836; NIS 86; TNF 11017; NOS 102; TNE 363666; TFE
186490
EPA GENETOX PROGRAM 1988, NEGATIVE: SPERM MORPHOLOGY-MOUSE
EPA GENETOX PROGRAM 1988, INCONCLUSIVE: MAMMALIAN MICRONUCLEUS
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JUNE 1998

SECTION 16. - - - - - - - - - - OTHER INFORMATION- - - - - - - -
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