

Product Number: **D9434**Product Name: **Dextrose**

Valid 05/2003 - 07/2003

Sigma Chemical Co.  
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[Description / Pricing](#)[Cert. of Analysis](#)[Cert. of Origin](#)[MSDS](#)[Print Preview](#)[Bulk Quote](#)[Ask A Scientist](#)

## M A T E R I A L S A F E T Y D A T A S H E E T

SECTION 1. - - - - - CHEMICAL IDENTIFICATION- - - - -  
 CATALOG #: D9434  
 NAME: DEXTROSE ANHYDROUS USP

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -  
 CAS #: 50-99-7  
 MF: C6H12O6  
 EC NO: 200-075-1

SYNONYMS  
 ANHYDROUS DEXTROSE \* CARTOSE \* CERELOSE \* CORN SUGAR \* DEXTROPUR \*  
 DEXTROSE \* DEXTROSE, ANHYDROUS \* DEXTROSOL \* GLUCOLIN \* GLUCOSE \*  
 GLUCOSE, ANHYDROUS \* D-GLUCOSE, ANHYDROUS \* GLUCOSE LIQUID \* GRAPE  
 SUGAR \* SIRUP \* SUGAR, GRAPE \*

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

SECTION 4. - - - - - FIRST-AID MEASURES- - - - -  
 IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.  
 CALL A PHYSICIAN.  
 IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT,  
 CALL A PHYSICIAN.  
 IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS  
 AMOUNTS OF WATER.  
 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.

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- - - - -  
 WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY  
 RUBBER GLOVES.  
 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- - - - -  
 SAFETY SHOWER AND EYE BATH.  
 MECHANICAL EXHAUST REQUIRED.  
 AVOID INHALATION.  
 AVOID CONTACT WITH EYES, SKIN AND CLOTHING.  
 AVOID PROLONGED OR REPEATED EXPOSURE.  
 NIOSH/MSHA-APPROVED RESPIRATOR.  
 COMPATIBLE CHEMICAL-RESISTANT GLOVES.  
 CHEMICAL SAFETY GOGGLES.  
 WASH THOROUGHLY AFTER HANDLING.  
 KEEP TIGHTLY CLOSED.  
 STORE IN A COOL DRY PLACE.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -  
 APPEARANCE AND ODOR  
 SOLID.  
 PHYSICAL PROPERTIES  
 MELTING POINT: 153 - 156 C  
 SOLUBILITY:  
 WATER -Z26060

SECTION 10. - - - - - STABILITY AND REACTIVITY - - - - -

SECTION 10. - - - - - STABILITY AND REACTIVITY - - - - -  
 STABILITY  
 STABLE.  
 INCOMPATIBILITIES  
 STRONG OXIDIZING AGENTS  
 HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS  
 CARBON MONOXIDE, CARBON DIOXIDE  
 HAZARDOUS POLYMERIZATION  
 WILL NOT OCCUR.

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -  
 ACUTE EFFECTS  
 MAY CAUSE SKIN IRRITATION.  
 MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.  
 MAY CAUSE EYE IRRITATION.  
 MAY BE HARMFUL IF INHALED.  
 MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER  
 RESPIRATORY TRACT.  
 MAY BE HARMFUL IF SWALLOWED.  
 RTECS #: LZ6600000  
 D-GLUCOSE  
 TOXICITY DATA  
 ORL-RAT LD50:25800 MG/KG 85AIAL -,39,1973  
 IPR-MUS LD50:18 GM/KG PSEBAA 35,98,1936  
 IVN-MUS LD50:9 GM/KG ARZNAD 18,666,1968  
 TARGET ORGAN DATA  
 MATERNAL EFFECTS (OTHER EFFECTS ON FEMALE)  
 EFFECTS ON FERTILITY (POST-IMPLANTATION MORTALITY)  
 EFFECTS ON EMBRYO OR FETUS (OTHER EFFECTS TO EMBYRO OR FETUS)  
 SPECIFIC DEVELOPMENTAL ABNORMALITIES (CRANIOFACIAL)  
 SPECIFIC DEVELOPMENTAL ABNORMALITIES (HEPATOBIILIARY 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 - - - - -  
 CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF  
 THIS MATERIAL.  
 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, JANUARY 2001

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