



chemists helping chemists in research & industry

aldrich chemical co.

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FEB 11 1991

Chemistry

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JOYCE KILBY/RISK MRMNT & SAFETY

DATE: 02/05/91
CUST#: 523216
PO#: LETTER 1/31/91

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

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IDENTIFICATION

PRODUCT #: 11256-9 NAME: D-MALTOSE MONOHYDRATE, 90%
CAS #: 6363-53-7
MF: C12H22O11

SYNONYMS

CEXTROMALTOSE * 4-(ALPHA-D-GLUCOPYRANOSIDO)-ALPHA-GLUCOPYRANOSE * D-
GLUCOSE, 4-D-ALPHA-D-GLUCOPYRANOSYL- * 4-(ALPHA-D-GLUCOSIDO)-D-
GLUCOSE * MALTOBIOSE * D-MALTOSE * MALT SUGAR * ALPHA-MALT SUGAR *

TOXICITY HAZARDS

RTECS DATA SUPPLIED IS FOR A CLOSELY RELATED COMPOUND.

RTECS NO: 005250000

MALTOSE

TOXICITY DATA

ORL-RAT LD50:34800	MG/KG	YACHDS	7,53,79
IPR-RAT LD50:30600	MG/KG	OYYAA2	6,251,72
IVN-RAT LD50:15300	MG/KG	OYYAA2	6,251,72
SCU-MUS LD50:38600	MG/KG	YACHDS	7,53,79
IVN-MUS LD50:26800	MG/KG	YACHDS	7,53,79
IVN-RBT LD50:25200	MG/KG	NIIRDN	6,805,82

REVIEWS, STANDARDS, AND REGULATIONS

NOHS 1974: HZD 83248; NIS 3; TNF 179; NOS 5; TNE 1441
NOES 1983: HZD 83248; NIS 7; TNF 716; NOS 10; TNE 11967; TFE 8150
EPA TSCA CHEMICAL INVENTORY, JUNE 1990

TARGET ORGAN DATA

EFFECTS ON NEWBORN (BIOCHEMICAL AND METABOLIC)
EFFECTS ON NEWBORN (PHYSICAL)
TUMORIGENIC (EQUIVOCAL TUMORIGENIC AGENT BY RTECS CRITERIA)
TUMORIGENIC (TUMORS AT SITE OF APPLICATION)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS)
DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

HEALTH HAZARD DATA

ACUTE EFFECTS

TOXICOLOGICAL DATA INDICATE A LOW ORDER OF TOXICITY. GENERAL GOOD-
HOUSEKEEPING PRACTICES SHOULD BE FOLLOWED.

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.

CONTINUED ON NEXT PAGE

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NAME: D-MALTOSE MONOHYDRATE, 90%

----- HEALTH HAZARD DATA -----

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.

----- PHYSICAL DATA -----

MELTING PT: 119 C TO 121 C (DEC)

APPEARANCE AND ODOR
WHITE POWDER

----- FIRE AND EXPLOSION HAZARD DATA -----

EXTINGUISHING MEDIA
WATER SPRAY.

CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

----- REACTIVITY DATA -----

STABILITY
STABLE.

HAZARDOUS POLYMERIZATION
WILL NOT OCCUR.

----- SPILL OR LEAK PROCEDURES -----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

WEAR PROTECTIVE EQUIPMENT.

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.

WASTE DISPOSAL METHOD

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A

CONTINUED ON NEXT PAGE



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----- SPILL OR LEAK PROCEDURES -----

CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.
OBSERVE ALL FEDERAL, STATE, AND LOCAL LAWS.

--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT
GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
MECHANICAL EXHAUST REQUIRED.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE
ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL NOT BE HELD
LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE
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