



chemists helping chemists in research & industry

**aldrich chemical co.**

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*Chew*

STEVE ANDERSON

DATE: 01/17/91  
CUST#: 523216  
PO#: QC10266

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 #: M210-1  
CAS #: 611-72-3  
MF: C8H8O3

NAME: DL-MANDELIC ACID, 99%

SYNONYMS

AMYGDALIC ACID \* AMYGDALINIC ACID \* GLYCOLIC ACID, PHENYL- \* ALPHA-HYDROXYPHENYLACETIC ACID \* ALPHA-HYDROXY-ALPHA-TOLUIC ACID \* KYSELINA 2-FENYL-2-HYDROXYETHANOVA (CZECH) \* KYSELINA MANDLOVA (CZECH) \* PARAMANDELIC ACID \* PHENYLGLYCOLIC ACID \* PHENYLHYDROXYACETIC ACID \* RACEMIC MANDELIC ACID \* ALPHA-TOLUIC ACID, ALPHA-HYDROXY- \* UROMALINE \*

TOXICITY HAZARDS

RTECS NO: 006300000  
MANDELIC ACID

TOXICITY DATA

IPR-RAT LD50: 4100 MG/KG  
IMS-RAT LD50: 300 MG/KG

BCFAAI 112,53,73  
EMSUA8 4,223,46

REVIEWS, STANDARDS, AND REGULATIONS

NOHS 1974: HZD 84432; NIS 1; TNF 174; NOS 2; TNE 1744  
EPA TSCA CHEMICAL INVENTORY, JUNE 1990

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

MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.  
MAY CAUSE IRRITATION.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

FIRST AID

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.

PHYSICAL DATA

MELTING PT: 119 C TO 121 C

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

APPEARANCE AND ODDR  
WHITE CRYSTALLINE SOLID

----- 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 -----

INCOMPATIBILITIES

STRONG OXIDIZING AGENTS  
MAY DISCOLOR ON EXPOSURE TO AIR.

STRONG BASES  
STRONG REDUCING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:  
CARBON MONOXIDE, CARBON DIOXIDE

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

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

WEAR SELF-CONTAINED BREATHING APPARATUS, 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.

WASTE DISPOSAL METHOD

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 LAWS.

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

CHEMICAL SAFETY GOGGLES.  
RUBBER GLOVES.  
NIOSH/MSHA-APPROVED RESPIRATOR.

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SAFETY SHOWER AND EYE BATH.  
MECHANICAL EXHAUST REQUIRED.  
AVOID CONTACT AND INHALATION.  
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.  
KEEP TIGHTLY CLOSED.  
USE WITH ADEQUATE VENTILATION.  
LIGHT SENSITIVE  
STORE IN A COOL DRY PLACE.

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