



chemists helping chemists in research & industry

**aldrich chemical co.**

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DATE: 08/12/88  
 CUST # 523216 P.O. # UNI91465

M A T E R I A L   S A F E T Y   D A T A   S H E E T   P A G E :   1

IDENTIFICATION

PRODUCT # 12056-1      NAME: AMARANTH (C.I. 16185)  
 CAS # 915-67-3  
 MF: C20H14N2O10S3

SYNONYMS

ACETACID RED 2BR \* ACID AMARANTH \* ACID AMARANTH I \* ACID AMARANTH N \*  
 ACID LEATHER RED 12BW \* ACID LEATHER RUBINE S \* ACID RED 37 \* ACILAN  
 RED SE \* AIZEN AMARANTH \* AMACID AMARANTH \* AMARANT (CZECH) \*  
 AMARANTH \* AMARANTH A \* AMARANTH B \* AMARANTH BPC \* AMARANTHE \*  
 AMARANTHE USP (BIOLOGICAL STAIN) \* AMARANTH EXTRA \* AMARANTH LAKE \*  
 AMARANTH S \* AMARANTH S SPECIALLY PURE \* AMARANTH USP \* AMARANTH WD \*  
 AZO RED R \* AZO RUBINE S \* AZO RUBINE SF \* AZO RUBINE S.FQ \* AZORUBIN  
 S \* AZO RUBY S \* BORDEAUX \* BORDEAUX S \* BORDEAUX S EXTRA CONC. A.  
 EXPORT \* BORDEAUX S EXTRA PURE A \* CALCOCID AMARANTH \* CANACERT  
 AMARANTH \* CERTICOL AMARANTH S \* CERVEN KYSELA 27 (CZECH) \* CERVEN  
 POTRAVINARSKA 9 (CZECH) \* C.I. 184 \* C.I. 16185 \* C.I. ACID RED 27 \*  
 C.I. ACID RED 27, TRISODIUM SALT \* C.I. FOOD RED 9 \* CILEFA RUBINE 2B  
 \* DAISHIKI AMARANTH \* D AND C RED 2 \* DOLKVAL AMARANTH \* DYE FDC RED  
 2 \* DYE RED RASPBERRY \* E 123 \* EDICOL AMARANTH \* EDICOL SUPRA  
 AMARANTH A \* EEC NO. 123 \* EUROCERT AMARANTH \* FAST RED \* FD AND C  
 RED NO. 2 \* FD AND C RED NO. 2-ALUMINIUM LAKE \* FOOD RED 2 \* FOOD RED  
 9 \* FRUIT RED A GEIGY \* HD AMARANTH B \* HD AMARANTH SUPRA \* HEXACERT  
 RED NO. 2 \* HEXACOL AMARANTH B EXTRA \* HIDACID AMARANTH \* HISPACIO  
 RED AM \* 2-HYDROXY-1,1'-AZONAPHTHALENE-3,6,4'-TRISULFONIC ACID  
 TRISODIUM SALT \* 3-HYDROXY-4-((4-SULFO-1-NAPHTHALENYL)AZO)-2,7-  
 NAPHTHLENEDISULFONIC ACID, TRISODIUM SALT \* 3-HYDROXY-4-((4-SULFO-1-  
 NAPHTHYL)AZO)-2,7-NAPHTHALENEDISULFONIC ACID, TRISODIUM SALT \* 3-  
 HYDROXY-4-((4-SULPHO-1-NAPHTHALENYL)AZO)-2,7-NAPHTHALENEDISULPHONIC  
 ACID, TRISODIUM SALT \* 3-HYDROXY-4-((4-SULPHO-1-NAPHTHYL)AZO)-2,7-  
 NAPHTHALENEDISULPHONIC ACID, TRISODIUM SALT \* JAVA AMARANTH \* KAYAKU  
 AMARANTH \* KAYAKU FOOD COLOUR RED NO. 2 \* KCA FOODCOL AMARANTH A \*  
 KITON RUBINE S \* LISSAMINE AMARANTH AC \* L-RED 3 \* L-ROT 3 (GERMAN) \*  
 MAPLE AMARANTH \* NAPHTHOL RED B \* NAPHTHOL RED C \* NAPHTHOL RED LZS \*  
 NAPHTHOL RED O \* NAPHTHOL RED S \* NAPHTHOL RED S CONC. SPECIALLY PURE  
 \* NAPHTHOL RED SI \* NAPHTHOL RED S SPECIALLY PURE \* NAPHTHOLROT S  
 (GERMAN) \* NEKLACID RED A \* RAKUTO AMARANTH \* RASPBERRY RED FOR  
 JELLIES \* 1302 RED \* 1508 RED \* RED DYE NO. 2 \* RED NO. 2 \* SAN-EI  
 AMARANTH \* S-AZO RUBINE \* SCHULTZ NR. 212 (GERMAN) \* SHIKISO AMARANTH  
 \* SOLAR RED O \* 1-(4-SULFO-1-NAPHTHYLAZO)-2-NAPHTHOL-3,6-DISULFONIC  
 ACID TRISODIUM SALT \* 1-(4-SULPHO-1-NAPHTHYLAZO)-2-NAPHTHOL-3,6-  
 DISULPHONIC ACID, TRISODIUM SALT \* TAKAOKA AMARANTH \* TERTRACID RED A  
 \* TOYO AMARANTH \* TRISODIUM SALT OF 1-(4-SULFO-1-NAPHTHYLAZO)-2-  
 NAPHTHOL-3,6-DISULFONIC ACID \* TRISODIUM SALT OF 1-(4-SULPHO-1-  
 NAPHTHYLAZO)-2-NAPHTHOL-3,6-DISULPHONIC ACID \* USACERT RED NO. 2 \*  
 VICTORIA RUBINE O \* VICTORIA RUBINE O FOR FOOD \* WHORTLEBERRY RED \*  
 WOOL BORDEAUX 6RK \* WOOL RED \* WOOL RED 40F \*

TOXICITY HAZARDS

RTECS # QJ6550000  
 2,7-NAPHTHALENEDISULFONIC ACID, 3-HYDROXY-4-((4-SULFO-1-NAPHTHYL)AZO)-  
 , TRISODIUM SALT

TOXICITY DATA

IPR-RAT LD50:1 GM/KG  
 IVN-RAT LD50:1 GM/KG

SCPHA4 47,39,79  
 SCPHA4 47,39,79

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CATALOG # 12056-1

NAME: AMARANTH (C.I. 16185)

IPR-MUS LD50:1000 MG/KG

FCTXAV 14,163,76

REVIEWS, STANDARDS, AND REGULATIONS

EPA GENETOX PROGRAM 1986, NEGATIVE: CELL TRANSFORM.-SA7/SHE; RODENT

DOMINANT LETHAL

EPA GENETOX PROGRAM 1986, NEGATIVE: HISTIDINE REVERSION-AMES TEST

EPA GENETOX PROGRAM 1986, NEGATIVE: S CEREVISIAE GENE CONVERSION

EPA GENETOX PROGRAM 1986, INCONCLUSIVE: B SUBTILIS REC ASSAY

EPA TSCA CHEMICAL INVENTORY, 1986

MEETS CRITERIA FOR PROPOSED OSHA MEDICAL RECORDS RULE FEREAC 47,30420,

82

TARGET ORGAN DATA

BEHAVIORAL (SOMNOLENCE)

PATERNAL EFFECTS (SPERMATOGENESIS)

MATERNAL EFFECTS (MENSTRUAL CYCLE CHANGES OR DISORDERS)

EFFECTS ON FERTILITY (FEMALE FERTILITY INDEX)

EFFECTS ON FERTILITY (MALE FERTILITY INDEX)

EFFECTS ON FERTILITY (PRE-IMPLANTATION MORTALITY)

EFFECTS ON FERTILITY (POST-IMPLANTATION MORTALITY)

EFFECTS ON FERTILITY (LITTER SIZE)

EFFECTS ON EMBRYO OR FETUS (FETOTOXICITY)

SPECIFIC DEVELOPMENTAL ABNORMALITIES (MUSCULOSKELETAL SYSTEM)

EFFECTS ON NEWBORN (LIVE BIRTH INDEX)

EFFECTS ON NEWBORN (VIABILITY INDEX)

EFFECTS ON NEWBORN (GROWTH STATISTICS)

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.

CHRONIC EFFECTS

OVEREXPOSURE MAY CAUSE REPRODUCTIVE DISORDER(S) BASED ON TESTS WITH  
LABORATORY ANIMALS.

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 OR SKIN WITH COPIOUS  
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED  
CLOTHING AND SHOES.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL  
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

CALL A PHYSICIAN.

WASH CONTAMINATED CLOTHING BEFORE REUSE.

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

NO PHYSICAL DATA AVAILABLE

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

EXTINGUISHING MEDIA

WATER SPRAY.

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

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**SPECIAL FIRE FIGHTING PROCEDURES**

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

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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

**INCOMPATIBILITIES**

STRONG OXIDIZING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:

CARBON MONOXIDE, CARBON DIOXIDE

NITROGEN OXIDES

SULFUR OXIDES

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

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**

EVACUATE AREA.

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 & LOCAL LAWS.

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

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

USE ONLY IN A CHEMICAL FUME HOOD.

SAFETY SHOWER AND EYE BATH.

AVOID CONTACT AND INHALATION.

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

WASH THOROUGHLY AFTER HANDLING.

POSSIBLE TERATOGEN.

KEEP TIGHTLY CLOSED.

STORE IN A COOL DRY PLACE.

----- ADDITIONAL PRECAUTIONS AND COMMENTS -----

NOT APPLICABLE

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 ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

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