



chemists helping chemists in research & industry

aldrich chemical co.

P.O. Box 355, Milwaukee, Wisconsin 53201 USA

Telephone: (414) 273-3850
TWX: (910) 262-3052 Aldrichem MI
Telex: 26 843 Aldrich MI
FAX: (414) 273-4979

FEB 11 1991

Chemistry

ATTN: SAFETY DIRECTOR
UNIVERSITY OF WISCONSIN-WHITEWATER
800 W MAIN ST

WHITEWATER WI 53190
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 #: 28325-8 NAME: SEBACIC ACID, 99%
CAS #: 111-20-6
MF: C10H18O4

SYNONYMS

DECANEDIOIC ACID * 1,8-OCTANEDICARBOXYLIC ACID * USAF HC-1 *

TOXICITY HAZARDS

RTECS NO: VS0875000

SEBACIC ACID

TOXICITY DATA

ORL-MUS LD50:6000 MG/KG
IPR-MUS LD50:500 MG/KG
ORL-MAM LD50:>11 GM/KG
IPR-MAM LD50:1175 MG/KG

BIJOAK 34,1196,40
NTIS** AD277-689
GISAAA 48(9),72,83
GTPZAB 24(5),48,80

REVIEWS, STANDARDS, AND REGULATIONS

NOHS 1974: HZD 84426; NIS 9; TNF 275; NOS 14; TNE 2129
NOES 1983: HZD 84426; NIS 16; TNF 1509; NOS 35; TNE 50905; TFE 2762
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 EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.

FIRST AID

CONTAMINATION OF THE EYES SHOULD BE TREATED BY IMMEDIATE AND PROLONGED IRRIGATION WITH COPIOUS AMOUNTS OF WATER.
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

BOILING PT: 273 C/50MM.
MELTING PT: 135 C TO 137 C

CONTINUED ON NEXT PAGE



Belgium/Holland
Aldrich Chemie
Boulevard Lambert 140 b6
Bd. Lambertmontaan 140 b6
B-1030 Bruxelles/Brussel
Telephone: 890076 Aldrich F
Belgium 114747
Holland 060224748
Telex: 62302 Alchem B
FAX: 022428216

France
Aldrich-Chimie S.a.r.l.
27, Fosse des Treize
F-67000 Strasbourg
Telephone: 88327010
Telex: 890076 Aldrich F
FAX: 88751283

Italy
Aldrich Chimica S.r.l.
Via Pietro Toselli, 4
20127 Milano
Telephone: 022613689
Telex: 330862 Aldrich I
FAX: 022896301

Japan
Aldrich Japan
Kyodo Bldg, Shinkanda
10 Kanda-Mikuracho
Chiyoda-Ku, Tokyo
Telephone: 032590155
FAX: 032580157

Spain
Aldrich Quimica
Apt. de Correos 161
28100 Alcobendas (Madrid)
Telephone: 916639977
Telex: 22189 SAQS-E
FAX: 916638084

United Kingdom
Aldrich Chemical Co., Ltd.
The Old Brickyard, New Road
Gillingham, Dorset SP8 4JL
Telephone: 0747822211
Telex: 417238 Aldrich G
FAX: 0747823779

West Germany
Aldrich-Chemie GmbH & Co. KG
D-7924 Steinheim
Telephone: 7329870
Telex: 714838 Aldri D
FAX: 0732987139/239



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

VAPOR PRESSURE: 1 MM @ 183 C

APPEARANCE AND ODOR
WHITE POWDER

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

EXTINGUISHING MEDIA
CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.
WATER SPRAY.

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

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
THIS MATERIAL, LIKE MOST MATERIALS IN POWDER FORM, IS CAPABLE OF
CREATING A DUST EXPLOSION.

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

INCOMPATIBILITIES

BASES
OXIDIZING AGENTS
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 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.

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.

CONTINUED ON NEXT PAGE

Belgium/Holland
Aldrich Chemie
Boulevard Lambertmont 140 b6
Bd. Lambertmontaan 140 b6
B-1030 Bruxelles/Brussel
Telephone:
Belgium 114747
Holland 080224748
Telex: 62302 Alchem B
FAX: 022428216

France
Aldrich-Chimie S.r.l.
27, Fosse des Troize
F-47000 Strasbourg
Telephone: 88327010
Telex: 890076 Aldrich F
FAX: 88751283

Italy
Aldrich Chimica S.r.l.
Via Pietro Toselli, 4
20127 Milano
Telephone: 022613689
Telex: 330862 Aldrich I
FAX: 022896301

Japan
Aldrich Japan
Kyodo Bldg. Shinkanda
10 Kanda-Mikuracho
Chiyoda-Ku, Tokyo
Telephone: 032580155
FAX: 032580157

Spain
Aldrich Quimica
Apt. de Correos 161
28100 Alcobendas (Madrid)
Telephone: 916639977
Telex: 22189 SAQS-E
FAX: 916638084

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Aldrich Chemical Co., Ltd.
The Old Brickyard, New Road
Gillingham, Dorset SP8 4JL
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Telex: 417238 Aldrich G
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--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

RUBBER GLOVES.
NIOSH/MSHA-APPROVED RESPIRATOR.
SAFETY SHOWER AND EYE BATH.
MECHANICAL EXHAUST REQUIRED.
AVOID CONTACT AND INHALATION.
WASH THOROUGHLY AFTER HANDLING.
KEEP CONTAINER CLOSED.
STORE IN A COOL DRY PLACE.

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ALDRICH



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Telex: 330862 Aldrich I
FAX: 022636301

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10 Kanda-Mikuracho
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