



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

ATTN: SAFETY DIRECTOR
STATE OF WISCONSIN
DEPARTMENT OF JUSTICE
STATE CRIME LAB
PO BOX 7857
MADISON WI 53707

DATE: 07/15/91
CUST#: 523143
PON: JDB0129

M A T E R I A L S A F E T Y D A T A S H E E T PAGE 1

IDENTIFICATION

PRODUCT #: V110-4
CAS #: 121-33-5
MF: C8H8O3

NAME: ~~XXXXXXXXXX~~

Vanillin, 99%

SYNONYMS

H-ANISALDEHYDE, 4-HYDROXY- * BENZALDEHYDE, 4-HYDROXY-3-METHOXY- * P-
HYDROXY-M-METHOXYBENZALDEHYDE * 4-HYDROXY-3-METHOXYBENZALDEHYDE *
LIQXIN * 3-METHOXY-4-HYDROXYBENZALDEHYDE * PROTOCATECHUALDEHYDE,
METHYL- * VANILLA * VANILLALDEHYDE * VANILLIC ALDEHYDE * P-VANILLIN *
ZIMCO *

TOXICITY HAZARDS

RTECS NO: YW5775000

VANILLIN

TOXICITY DATA

DRL-RAT LD50: 1580 MG/KG
IPR-RAT LD50: 1160 MG/KG
SCU-RAT LD50: 1500 MG/KG
IPR-MUS LD50: 475 MG/KG
DRL-GPG LD50: 1400 MG/KG
IPR-GPG LD50: 1190 MG/KG

FCTXAV 2,327,64
COREAF 243,609,56
RMSRA6 16,449,1896
FAONAU 44A,78,67
FCTXAV 2,327,64
COREAF 236,2549,53

REVIEWS, STANDARDS, AND REGULATIONS

NQHS 1974: HZD M0609; NIS 14; TNF 378; NOS 28; TNE 6740
NOES 1983: HZD M0609000; TNF 89; NIS 10912; NOS 97; TNE 177946; TFE
69887

EPA TSCA CHEMICAL INVENTORY, JUNE 1990

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, MARCH 1991

TARGET ORGAN DATA

BEHAVIORAL (SOMNOLENCE)
BEHAVIORAL (COMA)
MATERNAL EFFECTS (OVARIES, FALLOPIAN TUBES)
MATERNAL EFFECTS (UTERUS, CERVIX, VAGINA)

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

HARMFUL IF SWALLOWED.
MAY BE HARMFUL IF INHALED.
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
CAUSES EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.

CONTINUED ON NEXT PAGE

France
Aldrich-Chemie S.r.l.
27, Fosse des Treves
F-87000 Brnoybourg
Telephone 83321818
Telex 990078 ALDRICH F
FAX 86751263

Italy
Aldrich Chimica S.r.l.
Via Piero Tosini, 4
20127 Milano
Telephone 022613689
Telex 320462 ALDRICH I
FAX 022896301

Japan
Aldrich Japan
Kyoto Bldg. Shinjuku
10 Kanze-Mitsuricho
Chiyoda-Ku, Tokyo
Telephone 032580155
Telex 320462 ALDRICH I
FAX 032580157

Spain
Aldrich Quimica
Apt. de Correos 161
28100 Alcobendas (Madrid)
Telephone 916429877
Telex 22189 SAQS-E
FAX 916438084

United Kingdom
Aldrich Chemical Co., Ltd.
The Old Brickyard, New Road
Oxford, Oxford OX2 0EL
Telephone 074722211
Telex 417234 ALDRICH G
FAX 074723779

West Germany
Aldrich-Chemie GmbH & Co. KG
D-7824 Bismuth
Telephone 7329670
Telex 714834 ALDR D
FAX 0732967139/239



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CUST#: 523143
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PRODUCT #: V110-4
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NAME: VANILLIN, 99%

HEALTH HAZARD DATA

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

BOILING PT: 170 C/15MM.
MELTING PT: 81 C TO 83 C
VAPOR DENSITY: 5.3
VAPOR PRESSURE: 1 MM @ 107 C

APPEARANCE AND ODOR
WHITE CRYSTALLINE POWDER

FIRE AND EXPLOSION HAZARD DATA

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.

REACTIVITY DATA

INCOMPATIBILITIES

STRONG OXIDIZING AGENTS
STRONG BASES
STRONG REDUCING AGENTS
MAY DISCOLOR ON EXPOSURE TO LIGHT.

AIR SENSITIVE
MOISTURE SENSITIVE

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE

CONTINUED ON NEXT PAGE

Am/Norland
28 Chemie
Avenue Lambert 140 Bd
Andermonden 140 Bd
30 Bruxelles/Brussel
Phone: 814747
Telex: 060224748
and 62302 Alchem B
022428216

France
Aldrich-Chemie S r.l.
27, Faubourg des Treize
F-67000 Strasbourg
Telephone: 8827010
Telex: 890076 Aldrich F
FAX: 86781282

Italy
Aldrich Chimica S.r.l.
Via Piero Tezzati, 4
20127 Milano
Telephone: 022613688
Telex: 330442 Aldrich I
FAX: 022894301

Japan
Aldrich Japan
Kyoda Bldg. Shinjuku
10 Kanda-Mitsuricho
Chiyoda-Ku, Tokyo
Telephone: 032540155
FAX: 032540157

Spain
Aldrich Quimica
Apt. de Correos 161
28100 Alcobendas (Madrid)
Telephone: 916639977
Telex: 22189 SAQLE
FAX: 916636064

United Kingdom
Aldrich Chemical Co., Ltd.
The Old Brickyard, New Road
Gillingham, Dorset SP9 4JL
Telephone: 0747822211
Telex: 417238 Aldrich G
FAX: 0747823779

West Germany
Aldrich-Chemie GmbH & Co. KG
D-7824 Sigmaringen
Telephone: 7329470
Telex: 714438 Aldi D
FAX: 0732947139/239



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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 3

CUST#: 523143
PO#: J0B0129

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CAS #: 121-33-5
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NAME: VANILLIN, 99%

----- 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 ENVIRONMENTAL REGULATIONS.

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

CHEMICAL SAFETY GOGGLES.
RUBBER GLOVES.
NIOSH/MSHA-APPROVED RESPIRATOR.
SAFETY SHOWER AND EYE BATH.
MECHANICAL EXHAUST REQUIRED.
AVOID INHALATION.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
WASH THOROUGHLY AFTER HANDLING.
EYE IRRITANT.
KEEP TIGHTLY CLOSED.
LIGHT SENSITIVE
AIR AND MOISTURE SENSITIVE
STORE IN A COOL DRY PLACE.

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Netherlands
Chemie
and Lambertmont 140 b6
sbormentaan 140 b6
Brusselles/Bruxelles
Belgium
tel: 114747

France
Aldrich-Chemie S.a.r.l.
37, Fosse des Trévis
F-47000 Brullemont
Telephone 84327010
Telex 890076 Aldrich F
FAX 84751283

Italy
Aldrich Chimica S.r.l.
Via Piero Tozzoli, 4
20121 Milano
Telephone 022613488
Telex 330842 ALDRICH I
FAX 022884301

Japan
Aldrich Japan
Kyoto Bldg. Shinjuku
10 Kanda-Mitsukicho
Chiyoda-Ku, Tokyo
Telephone 032540155
FAX 032540155

Spain
Aldrich Química
Apt. de Correos 181
28100 Alcobendas (Madrid)
Telephone 816639877
Telex 22188 SAQB-E

United Kingdom
Aldrich Chemical Co., Ltd.
The Old Brickyard, New Road
Ottensham, Dover SE8 4JL
Telephone 0747622211
Telex 417234 Aldrich G

West Germany
Aldrich-Chemie GmbH & Co. KG
D-7824 Sigmaringen
Telephone 7329670
Telex 714834 Aldrich D
FAX 0732967138/736