## Product Number: V1104 Product Name: Vanillin, 99%

## Preduct Infermetten/

Valid 08/2000 - 10/2000

Description / Pricing Cert. of Analysis **MSDS** 

Aldrich Chemical Co., Inc. 1001 West St. Paul Milwaukee, WI 53233 USA Tel: 414-273-3850

CIMITATA

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Ask A Scientist

MATERIAL SAFETY DATA SHEET

SECTION 1. - - - - - - CHEMICAL IDENTIFICATION- - - - - - -

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CATALOG #:
                           V1104
                           VANILLIN, 99%
SECTION 2. - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -
    CAS #:
            121-33-5
    MF: C8H8O3
    EC NO:
            204-465-2
  SYNONYMS
    M-ANISALDEHYDE, 4-HYDROXY- * BENZALDEHYDE, 4-HYDROXY-3-METHOXY- * P-
    HYDROXY-M-METHOXYBENZALDEHYDE * 4-HYDROXY-3-METHOXYBENZALDEHYDE *
LIOXIN * 3-METHOXY-4-HYDROXYBENZALDEHYDE * METHYLPROTOCATECHUIC
ALDEHYDE * PROTOCATECHUALDEHYDE, METHYL- * VANILLA * VANILLALDEHYDE *
VANILLIC ALDEHYDE * P-VANILLIN * VANILLINE * ZIMCO *
SECTION 3. - - - - - - - HAZARDS IDENTIFICATION - - - - - -
  LABEL PRECAUTIONARY STATEMENTS
    HARMFUL
    HARMFUL IF SWALLOWED.
    IRRITATING TO EYES.
    IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
    WATER AND SEEK MEDICAL ADVICE.
    WEAR SUITABLE PROTECTIVE CLOTHING.
    AIR, LIGHT AND MOISTURE SENSITIVE.
    KEEP TIGHTLY CLOSED.
SECTION 4. - - - - - - - FIRST-AID MEASURES- - -
    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.
SECTION 5. - - - - - - FIRE FIGHTING MEASURES -
  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.
SECTION 6. - - - - - - ACCIDENTAL RELEASE MEASURES- - - - - - -
    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.
SECTION 7. - - - - - - - HANDLING AND STORAGE- - - - - - - -
    REFER TO SECTION 8.
SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - - -
    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.
    HARMFUL SOLID.
    EYE IRRITANT.
    KEEP TIGHTLY CLOSED.
    STORE IN A COOL DRY PLACE.
SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - -
  APPEARANCE AND ODOR
    WHITE CRYSTALLINE POWDER
  PHYSICAL PROPERTIES
    BOILING POINT:
                           170 C/15MM.
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81 C TO 83 C
    MELTING POINT:
    VAPOR PRESSURE:
                          1MM 107 C
                       5.3
    VAPOR DENSITY:
SECTION 10. - - - - - - - - STABILITY AND REACTIVITY - - -
  INCOMPATIBILITIES
    STRONG OXIDIZING AGENTS
    STRONG BASES
    STRONG REDUCING AGENTS
    PERCHLORIC ACID
    MAY DISCOLOR ON EXPOSURE TO LIGHT.
    AIR SENSITIVE
   MOISTURE SENSITIVE
  HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
    TOXIC FUMES OF:
    CARBON MONOXIDE, CARBON DIOXIDE
SECTION 11. - - - -
                    - - - - TOXICOLOGICAL INFORMATION -
  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.
  RTECS #: YW5775000
    VANILLIN
  TOXICITY DATA
    ORL-RAT LD50:1580 MG/KG
                                                    FCTXAV 2,327,1964
    IPR-RAT LD50:1160 MG/KG
                                                    COREAF 243,609,1956
                                                    RMSRA6 16,449,1896
    SCU-RAT LD50:1500 MG/KG
    ORL-MUS LD50:3925 MG/KG
                                                    NTIS** OTS0536271
    IPR-MUS LD50:475 MG/KG
                                                    FAONAU 44A,78,1967
NTIS** OTS0533712
    SKN-RBT LD50:>5010 MG/KG
    ORL-GPG LD50:1400 MG/KG
                                                    FCTXAV 2,327,1964
  TARGET ORGAN DATA
    SENSE ORGANS AND SPECIAL SENSES (MIOSIS)
    BEHAVIORAL (SOMNOLENCE)
    BEHAVIORAL (MUSCLE WEAKNESS)
    BEHAVIORAL (COMA)
    VASCULAR (BP LOWERING NOT CHARACTERIZED IN AUTONOMIC SECTION)
    VASCULAR (ACUTE ARTERIAL OCCULSION)
    LUNGS, THORAX OR RESPIRATION (RESPIRATORY STIMULATION) LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)
    LIVER (JAUNDICE, OTHER OR UNCLASSIFIED)
    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.
SECTION 12. - - - - - - ECOLOGICAL INFORMATION - - - -
    DATA NOT YET AVAILABLE.
SECTION 13. - - - - - - DISPOSAL CONSIDERATIONS - - -
    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.
SECTION 14. - - - - - - - TRANSPORT INFORMATION - - - -
    CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.
SECTION 15. - - - - - - REGULATORY INFORMATION - -
  EUROPEAN INFORMATION
    HARMFUL
    R 22
    HARMFUL IF SWALLOWED.
    R 36
    IRRITATING TO EYES.
    IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
    WATER AND SEEK MEDICAL ADVICE.
    WEAR SUITABLE PROTECTIVE CLOTHING.
  REVIEWS, STANDARDS, AND REGULATIONS
    OEL=MAK
    NOHS 1974: HZD M0609; NIS 14; TNF 378; NOS 28; TNE 6740
    NOES 1983: HZD M0609; NIS 89; TNF 10912; NOS 97; TNE 177946; TFE 69887 EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
    EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES
    EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, DECEMBER 1999
SECTION 16. - - - - - - - OTHER INFORMATION- - - - - -
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