



chemists helping chemists in research & industry

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PO BOX 355 MILWAUKEE, WI 52301
DATE 08/13/96
CUST#: 938609
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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

PAGE 1

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

CATALOG #: B133-4
NAME: BENZALDEHYDE, 99+%

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

CAS #: 100-52-7
MF: C7H6O
EC NO: 202-860-4

SYNONYMS

ALMOND ARTIFICIAL ESSENTIAL OIL * ARTIFICIAL ALMOND OIL * ARTIFICIAL
ESSENTIAL OIL OF ALMOND * BENZALDEHYDE FCC * BENZENE CARBALDEHYDE *
BENZENECARBONAL * BENZOIC ALDEHYDE * NCI-C56133 * PHENYLMETHANAL *

SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -

LABEL PRECAUTIONARY STATEMENTS

HIGHLY TOXIC (USA)
TOXIC (EU)
MAY CAUSE CANCER.
MAY CAUSE HERITABLE GENETIC DAMAGE.
TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
MAY CAUSE SENSITIZATION BY SKIN CONTACT.
CAUSES IRRITATION.
COMBUSTIBLE.
TARGET ORGAN(S):
CENTRAL NERVOUS SYSTEM
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.
DO NOT BREATHE VAPOR.
AIR AND LIGHT SENSITIVE
STORE UNDER NITROGEN.

SECTION 4. - - - - - FIRST-AID MEASURES - - - - -

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.
ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS

CONTINUED ON NEXT PAGE

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PAGE 2

CATALOG #: B133-4
NAME: BENZALDEHYDE, 99+%

WITH FINGERS.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
CALL A PHYSICIAN.
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.
COMBUSTIBLE.

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES - - - - -

EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.
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.
DO NOT BREATHE VAPOR.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
CARCINOGEN.
MUTAGEN.
HIGHLY TOXIC.
SENSITIZER.

CONTINUED ON NEXT PAGE

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PAGE 3

CATALOG #: B133-4
NAME: BENZALDEHYDE, 99+%

IRRITANT.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT AND OPEN FLAME.
AIR AND LIGHT SENSITIVE
STORE UNDER NITROGEN.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

APPEARANCE AND ODOR
COLORLESS LIQUID

PHYSICAL PROPERTIES

BOILING POINT: 178 C TO 179 C
MELTING POINT: -26 C
FLASHPOINT: 145 F
62C

EXPLOSION LIMITS IN AIR:

LOWER 1.4% 20 C
AUTOIGNITION TEMPERATURE: 374 F
189C

VAPOR PRESSURE: 4MM 45 C

SPECIFIC GRAVITY: 1.044

VAPOR DENSITY: 3.7

SECTION 10. - - - - - STABILITY AND REACTIVITY - - - - -

STABILITY
STABLE.

INCOMPATIBILITIES

STRONG OXIDIZING AGENTS
AIR SENSITIVE
LIGHT SENSITIVE
STRONG REDUCING AGENTS
STRONG BASES

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -

ACUTE EFFECTS

MAY BE FATAL IF INHALED, SWALLOWED, OR ABSORBED THROUGH SKIN.
VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
CAUSES SKIN IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.

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PAGE 4

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EXPOSURE CAN CAUSE:
NAUSEA, DIZZINESS AND HEADACHE
NARCOTIC EFFECT
CNS DEPRESSION
DAMAGE TO THE KIDNEYS
DAMAGE TO THE LIVER
PROLONGED OR REPEATED EXPOSURE TO SKIN CAUSES DEFATTING AND
DERMATITIS.
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

CHRONIC EFFECTS
CARCINOGEN.
MAY ALTER GENETIC MATERIAL.
TARGET ORGAN(S):
CENTRAL NERVOUS SYSTEM

RTECS #: CU4375000
BENZALDEHYDE

IRRITATION DATA
SKN-RBT 500 MG/24H MOD

FCTXAV 14,693,76

TOXICITY DATA
DRL-RAT LD50:1300 MG/KG
DRL-MUS LD50:28 MG/KG
IPR-MUS LD50:9 MG/KG
SCU-RBT LD50:5 GM/KG
DRL-GPG LD50:1 GM/KG
DRL-MAM LD50:2020 MG/KG

FCTXAV 2,327,64
EJTXAZ 9,99,76
EJTXAZ 9,99,76
FCTXAV 14,693,76
FCTXAV 2,327,64
GISAAA 39(4),86,74

TARGET ORGAN DATA
BEHAVIORAL (SOMNOLENCE)
BEHAVIORAL (TREMOR)
BEHAVIORAL (COMA)
LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)
GASTROINTESTINAL (ULCERATION OR BLEEDING FROM SMALL INTESTINE)
KIDNEY, URETER, BLADDER (URINE VOLUME INCREASED)
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 - - - - -

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PAGE 5

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THIS COMBUSTIBLE MATERIAL MAY BE BURNED 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

EC INDEX NO: 605-012-00-5

TOXIC

R 45

MAY CAUSE CANCER.

R 46

MAY CAUSE HERITABLE GENETIC DAMAGE.

R 23/24/25

TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

R 43

MAY CAUSE SENSITIZATION BY SKIN CONTACT.

S 45

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

S 26

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.

S 36/37/39

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.

S 23

DO NOT BREATHE VAPOR.

REVIEWS, STANDARDS, AND REGULATIONS

DEL=MAK

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION
FEREAC 54,7740,89

DEL-HUNGARY:TWA 5 MG/M3;STEL 10 MG/M3 JAN93

DEL-RUSSIA:STEL 5 MG/M3 JAN93

NOHS 1974: HZD 84494; NIS 18; TNF 1409; NOS 43; TNE 15976

NOES 1983: HZD 84494; NIS 31; TNF 3776; NOS 58; TNE 67721; TFE 27021

EPA GENETOX PROGRAM 1988, POSITIVE: N CRASSA-REVERSION

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES

ON EPA IRIS DATABASE

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PAGE 6

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EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, APRIL 1996
NTP CARCINOGENESIS STUDIES (GAVAGE); SOME EVIDENCE: MOUSE
NTPTR* NTP-TR-378,90
NTP CARCINOGENESIS STUDIES (GAVAGE); NO EVIDENCE: RAT
NTPTR* NTP-TR-378,90

SECTION 16. - - - - - OTHER INFORMATION - - - - -

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