



chemists helping chemists in research & industry

aldrich chemical co., inc.

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DATE: 06/21/93
CUST#: 523216
PO#: QE1802

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

PAGE 1

IDENTIFICATION

PRODUCT #: M2990-8
CAS #: 93-58-3 NAME: METHYL BENZOATE, 99%
MF: C8H8O2

SYNONYMS
ESSENCE OF NIOBE * METHYL BENZENECARBOXYLATE * METHYL BENZOATE *
METHYLESTER KYSELINY BENZOOVE (CZECH) * NIOBE OIL * OIL OF NIOBE *
OXIDATE LE *

TOXICITY HAZARDS

TECS #: DH3850000
BENZOIC ACID, METHYL ESTER

IRRITATION DATA

SKN-RBT 10 MG/24H OPEN MLD	AMIHBC 10,61,54
SKN-RBT 500 MG/24H MLD	85JCAE -,380,86
EYE-RBT 500 MG OPEN	AMIHBC 10,61,54
EYE-RBT 500 MG/24H MLD	85JCAE -,380,86

TOXICITY DATA

ORL-RAT LD50:1177 MG/KG	FAVUAI 18,69,86
ORL-MUS LD50:3330 MG/KG	FCTXAV 2,327,64
ORL-RBT LD50:2170 MG/KG	JPETAB 84,358,45
ORL-GPG LD50:4100 MG/KG	FCTXAV 12,937,74

REVIEWS, STANDARDS, AND REGULATIONS

NOHS 1974: HZD M1650; NIS 3; TNF 61; NOS 6; TNE 1002
NDES 1983: HZD M1650; NIS 51; TNF 4188; NOS 60; TNE 73641; TFE 25030
EPA TSCA CHEMICAL INVENTORY, JUNE 1990
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 1993

TARGET ORGAN DATA

BEHAVIORAL (CHANGE IN MOTOR ACTIVITY)
GASTROINTESTINAL (HYPERMOTILITY, DIARRHEA)
SKIN AND APPENDAGES (HAIR)
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, INHALED, OR ABSORBED THROUGH SKIN.
VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER

CONTINUED ON NEXT PAGE

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PAGE 2

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HEALTH HAZARD DATA

RESPIRATORY TRACT.
CAUSES SKIN IRRITATION.
MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTIONS.
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 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 POINT: 198 C TO 199 C
MELTING POINT: -12 C
SPECIFIC GRAVITY: 1.094
VAPOR DENSITY: 4.68
VAPOR PRESSURE: <1 MM @ 20 C

APPEARANCE AND ODOR
COLORLESS LIQUID

FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT 181 F

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

SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO

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FIRE AND EXPLOSION HAZARD DATA

PREVENT CONTACT WITH SKIN AND EYES.
COMBUSTIBLE LIQUID.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

REACTIVITY DATA

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
STRONG BASES

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

EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.
COVER WITH DRY LIME OR SODA ASH, PICK UP, KEEP IN A CLOSED CONTAINER
AND HOLD FOR WASTE DISPOSAL.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

WASTE DISPOSAL METHOD

THIS COMBUSTIBLE MATERIAL MAY BE BURNED 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.
COMPATIBLE CHEMICAL-RESISTANT GLOVES.
NIOSH/MSHA-APPROVED RESPIRATOR.
SAFETY SHOWER AND EYE BATH.
MECHANICAL EXHAUST REQUIRED.
AVOID BREATHING VAPOR.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

HARMFUL LIQUID.

IRRITANT.

SENSITIZER.

KEEP TIGHTLY CLOSED.

KEEP AWAY FROM HEAT AND OPEN FLAME.

STORE IN A COOL DRY PLACE.

ADDITIONAL LABEL PRECAUTIONARY STATEMENTS

HARMFUL

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

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.

COMBUSTIBLE.

KEEP AWAY FROM HEAT AND OPEN FLAME.

IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE (SHOW THE LABEL WHERE POSSIBLE).

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

TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.

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

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