



chemists helping chemists in research & industry

aldrich chemical co., inc.

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ATTN: SAFETY DIRECTOR
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UNIVERSITY OF WISCONSIN WHITWATER
P O BOX 296
WHITWATER WI 53190-0296

DATE: 12/09/94
CUST#: 523216
PO#: Q F 06524

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 - - - - -

PRODUCT #: 36045-7 NAME: ACETONITRILE, 99.5+%, A.C.S. REAGENT

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

CAS #: 75-05-8
MF: C2H3N

SYNONYMS

ACETONITRIL (GERMAN, DUTCH) * ACETONITRILE (ACGIH, DOT, OSHA) *
CYANOMETHANE * CYANURE DE METHYL (FRENCH) * ETHANENITRILE * ETHYL
NITRILE * METHANECARBONITRILE * METHANE, CYANO- * METHYL CYANIDE *
METHYL CYANIDE (DOT) * METHYLKYANID (CZECH) * NCI-C60822 * RCRA WASTE
NUMBER U003 * UN1648 (DOT) * USAF EK-488 *

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

LABEL PRECAUTIONARY STATEMENTS

FLAMMABLE (USA DEFINITION)
HIGHLY FLAMMABLE (EUROPEAN DEFINITION)
TOXIC
TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
TARGET ORGAN(S):
CENTRAL NERVOUS SYSTEM
LIVER
KEEP AWAY FROM SOURCES OF IGNITION. NO SMOKING.
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.
HANDLE AND STORE UNDER NITROGEN.

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

FLUSH SKIN WITH WATER.
CONTAMINATION OF THE EYES SHOULD BE TREATED BY IMMEDIATE AND PROLONGED
IRRIGATION WITH COPIOUS AMOUNTS OF WATER.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

CONTINUED ON NEXT PAGE

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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 2

CUST#: 523216
PO#: Q F 06524

PRODUCT #: 360457
MF: C2H3N

NAME: ACETONITRILE, 99.5+%, A.C.S. REAGENT

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
REMOVE AND WASH CONTAMINATED CLOTHING PROMPTLY.
DISCARD CONTAMINATED SHOES.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

EXTINGUISHING MEDIA
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
WATER MAY BE EFFECTIVE FOR COOLING, BUT MAY NOT EFFECT EXTINGUISHMENT.

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

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EXTREMELY FLAMMABLE.
VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK.
CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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

EVACUATE AREA.
SHUT OFF ALL SOURCES OF IGNITION.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
COVER WITH AN ACTIVATED CARBON ADSORBENT, TAKE UP AND PLACE IN CLOSED CONTAINERS. TRANSPORT OUTDOORS.
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 - - - - -

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.

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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 3

CUST#: 523216
PO#: Q F 06524

PRODUCT #: 360457
MF: C2H3N

NAME: ACETONITRILE, 99.5+%, A.C.S. REAGENT

SAFETY SHOWER AND EYE BATH.
USE ONLY IN A CHEMICAL FUME HOOD.
DO NOT BREATHE VAPOR.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
TOXIC.
IRRITANT.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
STORE IN A COOL DRY PLACE.

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

APPEARANCE AND ODOR
CLEAR, COLORLESS LIQUID
BOILING POINT: 81 C TO 82 C
MELTING POINT: -48 C TO C
FLASHPOINT 42 F
5C
AUTOIGNITION TEMPERATURE: 973 F 522C
UPPER EXPLOSION LEVEL: 16%
LOWER EXPLOSION LEVEL: 4.4%
VAPOR PRESSURE: 72.8MM 20 C
VAPOR DENSITY: 1.41
SPECIFIC GRAVITY: 0.786

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

INCOMPATIBILITIES
ACIDS
BASES
OXIDIZING AGENTS
REDUCING AGENTS
ALKALI METALS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
THERMAL DECOMPOSITION MAY PRODUCE CARBON MONOXIDE, CARBON DIOXIDE,
AND NITROGEN OXIDES.
HYDROGEN CYANIDE

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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 4

CUST#: 523216
PO#: Q F 06524

PRODUCT #: 360457
MF: C2H3N

NAME: ACETONITRILE, 99.5+%, A.C.S. REAGENT

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

ACUTE EFFECTS

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
CAUSES SKIN IRRITATION.
TARGET ORGAN(S):
CENTRAL NERVOUS SYSTEM
LIVER, KIDNEYS
BLOOD, LUNGS

RTECS NO: AL7700000

ACETONITRILE

IRRITATION DATA

SKN-RBT 10 MG/24H OPEN
SKN-RBT 500 MG OPEN MLD
EYE-RBT 20 MG OPEN SEV

JIHTAB 30,63,48
UCDS** 3/18/65
JIHTAB 30,63,48

TOXICITY DATA

ORL-RAT LD50:2460 MG/KG
IHL-RAT LC50:7551 PPM/8H
IPR-RAT LD50:850 MG/KG
SCU-RAT LD50:3500 MG/KG
IVN-RAT LD50:1680 MG/KG
PAR-RAT LD50:1100 MG/KG
ORL-MUS LD50:269 MG/KG
IHL-MUS LC50:2693 PPM/1H
IPR-MUS LD50:175 MG/KG
SCU-MUS LD50:4480 MG/KG
IVN-MUS LD50:612 MG/KG
ORL-CAT LD50:200 MG/KG
IHL-CAT LC50:18 GM/M3
ORL-RBT LD50:50 MG/KG
IHL-RBT LC50:2828 PPM/4H
SKN-RBT LD50:1250 UL/KG
ORL-GPG LD50:177 MG/KG
IHL-GPG LC50:5655 PPM/4H
ORL-MAM LD50:1670 MG/KG

UCDS** 3/18/65
JOCMA7 1,634,59
JOCMA7 1,634,59
85GMAT -,16,82
JOCMA7 1,634,59
85GMAT -,16,82
ARTODN 55,47,84
CTOXAD 18,991,81
TXAPA9 59,589,81
85GMAT -,16,82
85GMAT -,16,82
ZAARAM 19,225,69
85GMAT -,16,82
ZAARAM 19,225,69
JOCMA7 1,634,59
UCDS** 3/18/65
JOCMA7 1,634,59
JOCMA7 1,634,59
GISAAA 39(4),86,74

TARGET ORGAN DATA

SENSE ORGANS AND SPECIAL SENSES (CORNEAL DAMAGE)

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PAGE 5

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PRODUCT #: 360457
MF: C2H3N

NAME: ACETONITRILE, 99.5+%, A.C.S. REAGENT

BEHAVIORAL (HALLUCINATIONS, DISTORTED PERCEPTIONS)
BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)
BEHAVIORAL (EXCITEMENT)
BEHAVIORAL (ATAXIA)
LUNGS, THORAX OR RESPIRATION (DYSPNAE)
LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)
GASTROINTESTINAL (NAUSEA OR VOMITING)
EFFECTS ON FERTILITY (POST-IMPLANTATION MORTALITY)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (MUSCULOSKELETAL SYSTEM)
NUTRITIONAL AND GROSS METABOLIC (CHANGES IN: METABOLIC ACIDOSIS)
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 -----
BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND
SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY
FLAMMABLE.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. ----- TRANSPORT INFORMATION -----
CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. ----- REGULATORY INFORMATION -----

REVIEWS, STANDARDS, AND REGULATIONS
ACGIH TLV-TWA 40 PPM; STEL 60 PPM
MSHA STANDARD-AIR:TWA 40 PPM (70 MG/M3) 85INAB 6,12,91
DTLVS* 3,3,71
OSHA PEL:8H TWA 40 PPM (70 MG/M3)
FEREAC 54,2923,89
OSHA PEL FINAL:8H TWA 40 PPM (70 MG/M3);STEL 60 PPM (105 MG/M3)
FEREAC 54,2923,89

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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 6

CUST#: 523216
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PRODUCT #: 360457
 MF: C2H3N

NAME: ACETONITRILE, 99.5+%, A.C.S. REAGENT

OEL--ARAB REPUBLIC OF EGYPT:TWA 40 PPM (70 MG/M3);SKIN JAN93
 OEL--AUSTRALIA:TWA 40 PPM (70 MG/M3);STEL 60 PPM ;SKIN JAN93
 OEL--AUSTRIA:TWA 40 PPM (70 MG/M3) JAN93
 OEL--BELGIUM:TWA 40 PPM (67 MG/M3);STEL 60 PPM (101 MG/M3);SKIN JAN93
 OEL--DENMARK:TWA 40 PPM (70 MG/M3);STEL 60 PPM (105 MG/M3) JAN93
 OEL--FINLAND:TWA 40 PPM (70 MG/M3);STEL 60 PPM (105 MG/M3) JAN93
 OEL--FRANCE:TWA 40 PPM (70 MG/M3) JAN93
 OEL--GERMANY:TWA 40 PPM (70 MG/M3) JAN93
 OEL--HUNGARY:TWA 50 MG/M3;STEL 100 MG/M3;SKIN JAN93
 OEL--THE NETHERLANDS:TWA 40 PPM (70 MG/M3) JAN93
 OEL--THE PHILIPPINES:TWA 40 PPM (70 MG/M3) JAN93
 OEL--RUSSIA:STEL 10 MG/M3 JAN93
 OEL--SWITZERLAND:TWA 40 PPM (70 MG/M3);STEL 80 PPM ;SKIN JAN93
 OEL--TURKEY:TWA 40 PPM (70 MG/M3) JAN93
 OEL--UNITED KINGDOM:TWA 40 PPM (70 MG/M3);STEL 60 PPM JAN93
 OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV
 OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV
 NIOSH REL TO ACETONITRILE--AIR:10H TWA 20 PPM
 NIOSH* DHHS #92-100,92
 NOHS 1974: HZD 02900; NIS 9; TNF 302; NOS 25; TNE 28201
 NOES 1983: HZD 02900; NIS 19; TNF 1172; NOS 27; TNE 31341; TFE 7975
 EPA TSCA CHEMICAL INVENTORY, JUNE 1993
 EPA TSCA 8(A) PRELIMINARY ASSESSMENT INFORMATION, FINAL RULE
 PEREAC 47,26992,82
 EPA TSCA SECTION 8(E) STATUS REPORT BEHQ-0578-0149
 ON EPA IRIS DATABASE
 EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JULY 1994
 NIOSH ANALYTICAL METHODS: SEE ACETONITRILE, 1606
 NTP CARCINOGENESIS STUDIES;TEST COMPLETED (POST PEER REVIEW), JULY 1994
 THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

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

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

CONTINUED ON NEXT PAGE

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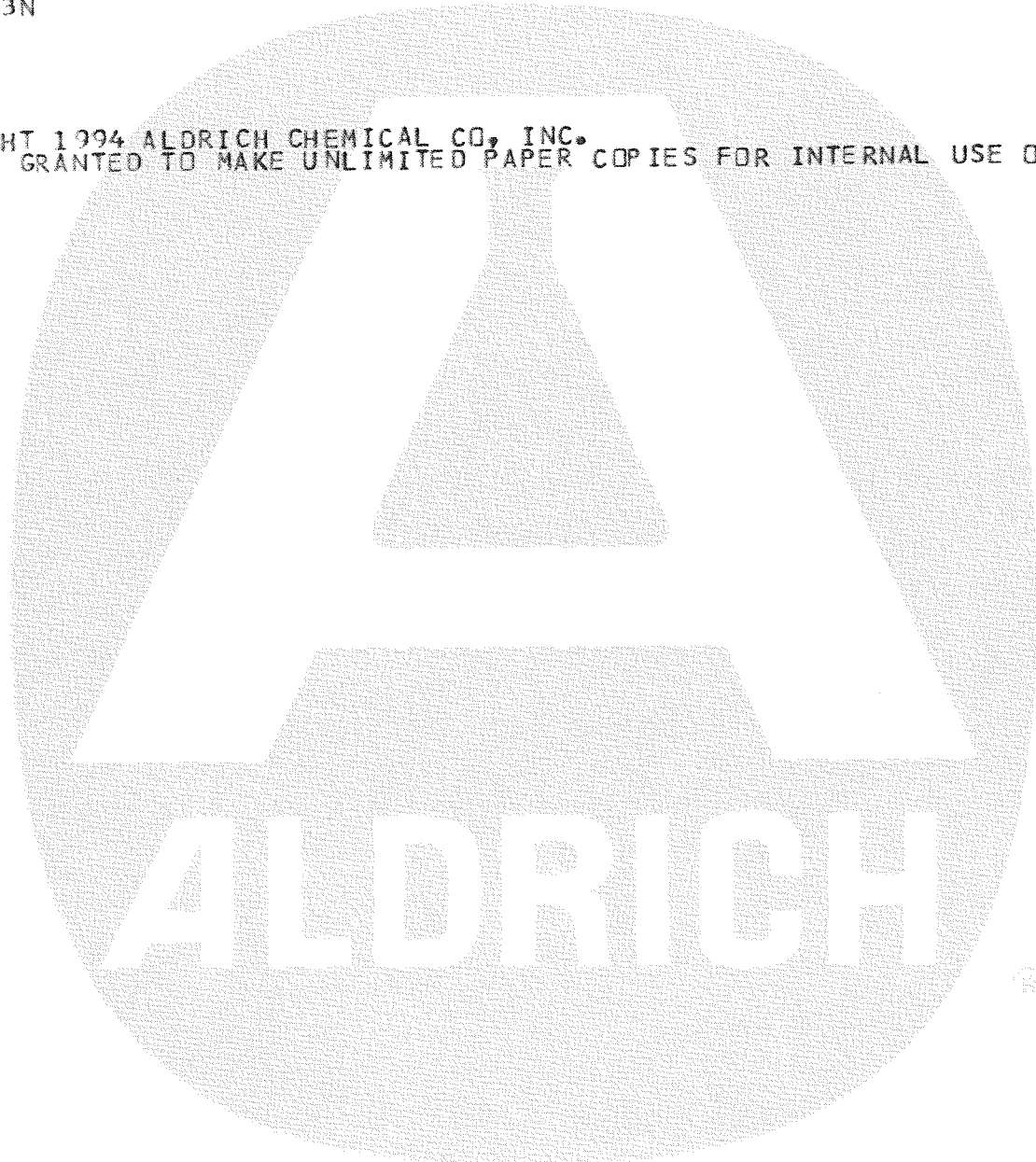
PAGE 7

PRODUCT #: 360457
MF: C2H3N

NAME: ACETONITRILE, 99.5+%, A.C.S. REAGENT

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