



SIGMA-ALDRICH

ALDRICH CHEMICAL COMPANY, INC.
P.O. BOX 355
MILWAUKEE, WISCONSIN 53201, USA

Organic

ATTN: SAFETY DIRECTOR

EMERGENCY PHONE 1-414-273-3850

JOEL WATKINS
SCHOOLCRAFT COLLEGE
18600 HAGGERTY ROAD
LIVONIA MI 48152-3932

DATE 01/08/97
CUST#: 938609
PO#: 83900

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. - - - - - C H E M I C A L I D E N T I F I C A T I O N - - - - -

CATALOG #: F1558-7
NAME: FORMALDEHYDE, 37 WT. % SOLUTION IN WATER

SECTION 2. - - - - - C O M P O S I T I O N / I N F O R M A T I O N O N I N G R E D I E N T S - - - - -

CAS #: 50-00-0
MF: CH₂O
EC NO: 200-001-8

ADDITIONAL INFORMATION

CONTAINS METHYL ALCOHOL, CHEMICAL ABSTRACTS REGISTRY NUMBER 67-56-1.

SYNONYMS

ALDEHYDE FORMIQUE (FRENCH) * ALDEHYD MRAVENC (CZECH) * ALDEIDE
FORMICA (ITALIAN) * BFV * FANNOFORM * FORMALDEHYDE (ACGIH:OSHA) *
FORMALDEHYDE, SOLUTIONS, FLAMMABLE (UN1198) (DOT) * FORMALDEHYDE,
SOLUTIONS (UN2209) (DOT) * FORMALDEHYD (CZECH, POLISH) * FORMALDEHYDE,
GAS * FORMALIN * FORMALIN 40 * FORMALINA (ITALIAN) * FORMALINE
(GERMAN) * FORMALIN-LOESUNGEN (GERMAN) * FORMALITH * FORMIC ALDEHYDE *
FORMOL * FYDE * LYSOFORM * METHALDEHYDE * METHANAL * METHYL ALDEHYDE
* METHYLENE OXIDE * MORBICID * NCI-C02799 * OPLOSSINGEN (DUTCH) *
OXOMETHANE * OXYMETHYLENE * PARAFORM * RCRA WASTE NUMBER U122 *
SUPERLYSOFORM * UN1198 (DOT) * UN2209 (DOT) *

SECTION 3. - - - - - H A Z A R D S I D E N T I F I C A T I O N - - - - -

LABEL PRECAUTIONARY STATEMENTS

TOXIC
MAY CAUSE CANCER.
MAY CAUSE HERITABLE GENETIC DAMAGE.
TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
CAUSES BURNS.
MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.
CONTAINS FORMALDEHYDE
POTENTIAL CANCER HAZARD.
READILY ABSORBED THROUGH SKIN.
LACHRYMATOR.
COMBUSTIBLE.
TARGET ORGAN(S):
EYES
KIDNEYS
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.
USE ONLY IN WELL VENTILATED AREAS.

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KEEP LOCKED UP AND OUT OF THE REACH OF CHILDREN.

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 WITH FINGERS.
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 IMMEDIATELY.
WASH CONTAMINATED CLOTHING BEFORE REUSE.
DISCARD CONTAMINATED SHOES.

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

EXTINGUISHING MEDIA

WATER MAY BE EFFECTIVE FOR COOLING, BUT MAY NOT EFFECT EXTINGUISHMENT.
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.
USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.
COMBUSTIBLE LIQUID.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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- - - - -

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
USE ONLY IN A CHEMICAL FUME HOOD.
SAFETY SHOWER AND EYE BATH.
DO NOT BREATHE VAPOR.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

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CATALOG #: F1558-7
NAME: FORMALDEHYDE, 37 WT. % SOLUTION IN WATER

AVOID PROLONGED OR REPEATED EXPOSURE.
READILY ABSORBED THROUGH SKIN.
WASH THOROUGHLY AFTER HANDLING.
TOXIC.
CARCINOGEN.
MUTAGEN.
CORROSIVE.
SENSITIZER.
LACHRYMATOR.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT AND OPEN FLAME.
STORE IN A COOL DRY PLACE.

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

APPEARANCE AND ODOR
COLORLESS LIQUID

PHYSICAL PROPERTIES
FLASHPOINT

133 F
56C

EXPLOSION LIMITS IN AIR:

UPPER
LOWER

73%
7%

AUTOIGNITION TEMPERATURE:

572 F

299C

VAPOR PRESSURE: 52MM 37 C

SPECIFIC GRAVITY: 1.083

VAPOR DENSITY: 1.03

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

INCOMPATIBILITIES

INCOMPATIBLE WITH: ANILINE, PHENOL, ISOCYANATES, ANHYDRIDES.

STRONG ACIDS

STRONG BASES

REACTS VIOLENTLY WITH:

STRONG OXIDIZING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:

CARBON MONOXIDE, CARBON DIOXIDE

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

ACUTE EFFECTS

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.

MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES
AND UPPER RESPIRATORY TRACT, EYES AND SKIN.

INHALATION MAY BE FATAL AS A RESULT OF SPASM, INFLAMMATION AND EDEMA
OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.

SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,
WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND

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VOMITING.
MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTIONS.
EXPOSURE CAN CAUSE:
COUGHING, CHEST PAINS, DIFFICULTY IN BREATHING.
PULMONARY EDEMA. EFFECTS MAY BE DELAYED.
GASTROINTESTINAL DISTURBANCES

CHRONIC EFFECTS

CARCINOGEN.
MAY ALTER GENETIC MATERIAL.
TARGET ORGAN(S):
EYES
KIDNEYS
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS #: LP8925000
FORMALDEHYDE

IRRITATION DATA

SKN-HMN	150 UG/3D-I MLD	85DKA8	- , 127 , 77
EYE-HMN	4 PPM/5M	IAPWAR	4 , 79 , 61
EYE-HMN	1 PPM/6M NSE MLD	AIHAAP	44 , 463 , 83
SKN-RBT	2 MG/24H SEV	85JCAE	- , 264 , 86
SKN-RBT	540 MG OPEN MLD	UCDS**	4 / 21 / 67
SKN-RBT	50 MG/24H MOD	TXAPA9	21 , 369 , 72
EYE-RBT	750 UG/24H SEV	85JCAE	- , 264 , 86
EYE-RBT	750 UG SEV	AJOPAA	29 , 1363 , 46
EYE-RBT	10 MG SEV	TXAPA9	55 , 501 , 80

TOXICITY DATA

ORL-WMN	LD50:108 MG/KG	29ZWAE	- , 328 , 68
UNR-MAN	LD50:477 MG/KG	85DCAI	2 , 73 , 70
ORL-RAT	LD50:100 MG/KG	FCTOD7	26 , 447 , 88
IHL-RAT	LC50:203 MG/M3	GTPZAB	18 (2) , 55 , 74
SCU-RAT	LD50:420 MG/KG	APTOA6	6 , 299 , 50
IVN-RAT	LD50:87 MG/KG	AEPPAE	221 , 166 , 54
ORL-MUS	LD50:42 MG/KG	NTIS**	AD-A125-539
IHL-MUS	LC50:454 GM/M3/4H	CUTOEX	1 , 47 , 93
SCU-MUS	LD50:300 MG/KG	APTOA6	6 , 299 , 50
SKN-RBT	LD50:270 UL/KG	UCDS**	4 / 21 / 67
ORL-GPG	LD50:260 MG/KG	JIHTAB	23 , 259 , 41

TARGET ORGAN DATA

SENSE ORGANS AND SPECIAL SENSES (OTHER OLFACTION EFFECTS)
SENSE ORGANS AND SPECIAL SENSES (OLFACTION TUMORS)
BEHAVIORAL (SOMNOLENCE)
BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)
BEHAVIORAL (EXCITEMENT)
BEHAVIORAL (AGGRESSION)
LUNGS, THORAX OR RESPIRATION (BRONCHIOLAR CONSTRICTION, INCLUDING ASTHMA)
LUNGS, THORAX OR RESPIRATION (ACUTE PULMONARY EDEMA)

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LUNGS, THORAX OR RESPIRATION (RESPIRATORY OBSTRUCTION)
GASTROINTESTINAL (GASTRITIS)
GASTROINTESTINAL (ULCERATION OR BLEEDING FROM STOMACH)
GASTROINTESTINAL (NAUSEA OR VOMITING)
BLOOD (OTHER CHANGES)
SKIN AND APPENDAGES (TUMORS)
PATERNAL EFFECTS (SPERMATOGENESIS)
PATERNAL EFFECTS (TESTES, EPIDIDYMIS, SPERM DUCT)
PATERNAL EFFECTS (PROSTATE, SEMINAL VESICLE, COWPER'S, ACCESSORY GLANDS)
PATERNAL EFFECTS (OTHER EFFECTS ON MALE)
EFFECTS ON FERTILITY (MALE FERTILITY INDEX)
EFFECTS ON FERTILITY (POST-IMPLANTATION MORTALITY)
EFFECTS ON EMBRYO OR FETUS (FETOTOXICITY)
EFFECTS ON EMBRYO OR FETUS (FETAL DEATH)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (CRANIOFACIAL)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (MUSCULOSKELETAL SYSTEM)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (HEPATOBIILIARY SYSTEM)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (OTHER DEVELOPMENTAL ABNORMALITIES)
EFFECTS ON NEWBORN (GROWTH STATISTICS)
EFFECTS ON NEWBORN (BIOCHEMICAL AND METABOLIC)
EFFECTS ON NEWBORN (BEHAVIORAL)
EFFECTS ON NEWBORN (OTHER POSTNATAL MEASURES OR EFFECTS)
TUMORIGENIC (CARCINOGENIC BY RTECS CRITERIA)
TUMORIGENIC (EQUIVOCAL TUMORIGENIC AGENT BY RTECS CRITERIA)
TUMORIGENIC (TUMORS AT SITE OF APPLICATION)
BIOCHEMICAL EFFECTS (EFFECT ON INFLAMMATION OR MEDIATION OF INFLAMMATION)
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 - - - - -
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: 605-001-00-5
TOXIC
R 23/24/25
TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R 34

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CAUSES BURNS.

R 40
POSSIBLE RISK OF IRREVERSIBLE EFFECTS.

R 43
MAY CAUSE SENSITIZATION BY SKIN CONTACT.

S 26
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.

S 36/37
WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.

S 45
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

S 51
USE ONLY IN WELL VENTILATED AREAS.

TLV AND SOURCE

REVISED FORMALDEHYDE OSHA PEL: 8H TWA 0.75 PPM; STEL: 2 PPM.

FOR METHYL ALCOHOL - SKIN:

ACGIH TLV-TWA: 200 PPM (260 MG/M3); STEL: 250 PPM (310 MG/M3).

OSHA PEL: 8 H TWA 200 PPM (260 MG/M3); STEL: 250 PPM (310 MG/M3).

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

ACGIH TLV-SUSPECTED HUMAN CARCINOGEN

85INA8 6,664,91

ACGIH TLV-CL 0.3 PPM

85INA8 6,664,91

IARC CANCER REVIEW: ANIMAL SUFFICIENT EVIDENCE IMEMDT 29,345,82

IARC CANCER REVIEW: ANIMAL SUFFICIENT EVIDENCE IMEMDT 62,217,95

IARC CANCER REVIEW: HUMAN LIMITED EVIDENCE IMSUDL 7,211,87

IARC CANCER REVIEW: HUMAN LIMITED EVIDENCE IMEMDT 62,217,95

IARC CANCER REVIEW: GROUP 2A IMSUDL 7,211,87

IARC CANCER REVIEW: GROUP 2A IMEMDT 62,217,95

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION

FEREAC 54,7740,89

MSHA STANDARD: AIR-CL 2 PPM (3 MG/M3)

DTLWS* 3,19,73

OSHA PEL (GEN INDU): SEE 1910.1048

CFRGBR 29,1910.1000,94

OSHA PEL (CONSTRUC): SEE CFR 29,1926.1148

CFRGBR 29,1926.55,94

OSHA PEL (FED CONT): CL 5 PPM (6 MG/M3)

CFRGBR 41,50-204.50,94

OEL-ARAB REPUBLIC OF EGYPT: TWA 2 PPM (3 MG/M3) JAN93

OEL-AUSTRALIA: TWA 1 PPM (1.5 MG/M3); STEL 2 PPM (3 MG/M3); CAR JAN93

OEL-BELGIUM: TWA 1 PPM (1.2 MG/M3); STEL 2 PPM (2.5 MG/M3); CAR JAN93

OEL-DENMARK: STEL 0.3 PPM (0.4 MG/M3); CARCINOGEN JAN93

OEL-FINLAND: STEL 1 PPM (1.3 MG/M3); SKIN JAN93

OEL-FRANCE: STEL 2 PPM (3 MG/M3) JAN93

OEL-GERMANY: TWA 0.5 PPM (0.6 MG/M3); CARCINOGEN JAN93

OEL-HUNGARY: STEL 0.6 MG/M3; CARCINOGEN JAN93

OEL-JAPAN: TWA 0.5 PPM (0.61 MG/M3); CARCINOGEN JAN93

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OEL-THE NETHERLANDS:TWA 1 PPM (1.5 MG/M3);STEL 2 PPM (3 MG/M3) JAN93
OEL-THE PHILIPPINES:TWA 5 PPM (6 MG/M3) JAN93
OEL-POLAND:TWA 2 MG/M3 JAN93
OEL-RUSSIA:TWA 0.5 PPM;STEL 0.5 MG/M3;SKIN JAN93
OEL-SWEDEN:TWA 0.5 PPM (0.6 MG/M3);STEL 1 PPM (1.2 MG/M3) JAN93
OEL-SWITZERLAND:TWA 0.5 PPM (0.6 MG/M3);STEL 1 PPM (1.2 MG/M3) JAN93
OEL-THAILAND:TWA 3 PPM;STEL 5 PPM JAN93
OEL-TURKEY:TWA 5 PPM (6 MG/M3) JAN93
OEL-UNITED KINGDOM:TWA 2 PPM (2.5 MG/M3);STEL 2 PPM (2.5 MG/M3) JAN93
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV
NIOSH REL TO FORMALDEHYDE-AIR:8H CA TWA 0.016 PPM;CL 0.1 PPM/15M
NIOSH* DHHS #92-100,92
NOHS 1974: HZD M1529; NIS 72; TNF 10311; NOS 67; TNE 66921
NOHS 1974: HZD 33640; NIS 213; TNF 33243; NOS 155; TNE 394660
NOES 1983: HZD M1529; NIS 87; TNF 11309; NOS 69; TNE 207013; TFE 104994
NOES 1983: HZD 33640; NIS 309; TNF 65738; NOS 193; TNE 1329322; TFE 441902
EPA GENETOX PROGRAM 1988, POSITIVE: CARCINOGENICITY-MOUSE/RAT
EPA GENETOX PROGRAM 1988, POSITIVE: D MELANOGASTER-RECIPROCAL TRANSLOCATION
EPA GENETOX PROGRAM 1988, POSITIVE: N CRASSA-REVERSION; E COLI POLA WITHOUT S9
EPA GENETOX PROGRAM 1988, POSITIVE: D MELANOGASTER SEX-LINKED LETHAL
EPA GENETOX PROGRAM 1988, POSITIVE: S CEREVISIAE GENE CONVERSION; S CEREVISIAE-REVERSION
EPA GENETOX PROGRAM 1988, INCONCLUSIVE: IN VITRO UDS-HUMAN FIBROBLAST
EPA GENETOX PROGRAM 1988, INCONCLUSIVE: CHO GENE MUTATION
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES
ON EPA IRIS DATABASE
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, OCTOBER 1996
NIOSH CURRENT INTELLIGENCE BULLETIN 34, APRIL 1981
NIOSH ANALYTICAL METHOD, 1994: ALDEHYDES, SCREENING, 2539
NIOSH ANALYTICAL METHOD, 1994: FORMALDEHYDE BY ON DUST (TEXTILE OR WOOD), 5700
NIOSH ANALYTICAL METHOD, 1994: FORMALDEHYDE BY GC, 2541; BY VIS, 3500
NTP 7TH ANNUAL REPORT ON CARCINOGENS, 1992 : ANTICIPATED TO BE CARCINOGEN
OSHA ANALYTICAL METHOD #ID-102

U.S. INFORMATION

37.0% FORMALDEHYDE 50-00-0
15.0% METHANOL 67-56-1

THESE PRODUCTS ARE 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

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RONKONKOMA, NEW YORK 11779-7238, USA

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