



chemists helping chemists in research & industry

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ATTN JOEL WATKINS
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LIVONIA MI 48152

EMERGENCY PHONE 1-414-273-3850
PO BOX 355 MILWAUKEE, WI 53201
DATE 08/13/96
CUST#: 938609
PO#: B15436

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 #: R40-6
NAME: RESORCINOL, 98%

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

CAS #: 108-46-3
MF: C₆H₆O₂
EC NO: 203-585-2

SYNONYMS

BENZENE, M-DIHYDROXY- * M-BENZENEDIOL * 1,3-BENZENEDIOL * C.I. 76505 *
C.I. DEVELOPER 4 * C.I. OXIDATION BASE 31 * DEVELOPER O * DEVELOPER
R * DEVELOPER RS * M-DIHYDROXYBENZENE * 1,3-DIHYDROXYBENZENE * M-
DIOXYBENZENE * DURAFUR DEVELOPER G * FOURAMINE RS * FOURRINE 79 *
FOURRINE EW * M-HYDROQUINONE * 3-HYDROXYCYCLOHEXADIEN-1-ONE * M-
HYDROXYPHENOL * 3-HYDROXYPHENOL * NAKO TGG * NCI-C05970 * PELAGOL
GREY RS * PELAGOL RS * PHENOL, M-HYDROXY- * RCRA WASTE NUMBER U201 *
RESORCIN * RESORCINE * RESORCINOL (ACGIH:DOT) * UN2876 (DOT) *

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

LABEL PRECAUTIONARY STATEMENTS

TOXIC (USA)
HARMFUL (EU)
HARMFUL IF SWALLOWED.
IRRITATING TO RESPIRATORY SYSTEM AND SKIN.
RISK OF SERIOUS DAMAGE TO EYES.
TARGET ORGAN(S):
BLOOD
NERVES
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING.
DO NOT BREATHE DUST.
AIR AND LIGHT SENSITIVE

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.

CONTINUED ON NEXT PAGE

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PAGE 2

CATALOG #: R40-6
NAME: RESORCINOL, 98%

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.

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

EXTINGUISHING MEDIA
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.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.
CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.

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

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.

SECTION 7. - - - - - HANDLING AND STORAGE - - - - -

REFER TO SECTION 8.

ADDITIONAL INFORMATION
REACTS WITH ACETANILIDE, ALBUMIN, ANTIPYRINE, CAMPHOR, MENTHOL AND URETHANE.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - - -

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
SAFETY SHOWER AND EYE BATH.
USE ONLY IN A CHEMICAL FUME HOOD.
DO NOT BREATHE DUST.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
WASH THOROUGHLY AFTER HANDLING.
TOXIC.
SEVERE EYE IRRITANT.

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PAGE 3

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KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.

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

APPEARANCE AND ODOR
WHITE TO PALE PINK CHIPS AND POWDER

PHYSICAL PROPERTIES

BOILING POINT: 178 C/16MM.
MELTING POINT: 110 C TO 113 C
FLASHPOINT: 340 F
170C
AUTOIGNITION TEMPERATURE: 1126 F 607C
VAPOR PRESSURE: 1MM 21.1 C
VAPOR DENSITY: 3.8

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

INCOMPATIBILITIES
ACID CHLORIDES
ACID ANHYDRIDES
OXIDIZING AGENTS
IRON AND IRON SALTS
LIGHT SENSITIVE
AIR 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 SEVERE EYE IRRITATION.
CAUSES SKIN IRRITATION.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
DEPENDING ON THE INTENSITY AND DURATION OF EXPOSURE, EFFECTS MAY
VARY FROM MILD IRRITATION TO SEVERE DESTRUCTION OF TISSUE.
PROLONGED CONTACT CAN CAUSE:
DAMAGE TO THE EYES
SEVERE IRRITATION OR BURNS.

CHRONIC EFFECTS

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PAGE 4

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THIS PRODUCT IS OR CONTAINS A COMPONENT THAT HAS BEEN REPORTED TO BE POSSIBLY CARCINOGENIC BASED ON ITS IARC, ACGIH, NTP OR EPA CLASSIFICATION.

TARGET ORGAN(S):

BLOOD
NERVES
THYROID
LIVER
KIDNEYS

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS #: VG9625000
RESORCINOL

IRRITATION DATA

SKN-RBT 500 MG
SKN-RBT 20 MG/24H MOD
EYE-RBT 100 MG SEV

IHFCAY 6,1,67
85JCAE -234,86
BIOFX* 11-4/70

TOXICITY DATA

ORL-HMN LD50:29 MG/KG
ORL-RAT LD50:301 MG/KG
ORL-MUS LD50:200 MG/KG
IPR-MUS LD50:215 MG/KG
SCU-MUS LD50:213 MG/KG
SKN-RBT LD50:3360 MG/KG

34ZIAG -,519,69
BIOFX* 11-4/70
JJTOEX 4,105,91
BEXBAN 61,291,66
ZGIMAL 2,333,47
AIHAAP 37,596,76

TARGET ORGAN DATA

PERIPHERAL NERVE AND SENSATION (SPASTIC PARALYSIS WITH/WITHOUT SENSORY CH
BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)
BEHAVIORAL (EXCITEMENT)
BEHAVIORAL (TETANY)
BEHAVIORAL (COMA)
CARDIAC (OTHER CHANGES)
LUNGS, THORAX OR RESPIRATION (DYSPLAE)
GASTROINTESTINAL (CHANGES IN STRUCTURE OR FUNCTION OF SALIVARY GLANDS)
BLOOD (METHEMOGLOBINEMIA-CARBOXHEMOGLOBINEMIA)
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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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

EC INDEX NO: 604-010-00-1

HARMFUL

R 22

HARMFUL IF SWALLOWED.

R 36/38

IRRITATING TO EYES AND SKIN.

S 26

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

REVIEWS, STANDARDS, AND REGULATIONS

DEL=MAK

ACGIH TLV-TWA 10 PPM; STEL 20 PPM 85INA8 6,1333,91

IARC CANCER REVIEW:ANIMAL INADEQUATE EVIDENCE IMEMDT 15,155,77

IARC CANCER REVIEW:HUMAN NO ADEQUATE DATA IMEMDT 15,155,77

IARC CANCER REVIEW:GROUP 3 IMSUDL 7,56,87

DEL-AUSTRALIA:TWA 10 PPM (45 MG/M3);STEL 20 PPM (90 MG/M3) JAN93

DEL-BELGIUM:TWA 10 PPM (45 MG/M3);STEL 20 PPM (90 MG/M3) JAN93

DEL-DENMARK:TWA 10 PPM (45 MG/M3) JAN93

DEL-FINLAND:TWA 10 PPM (45 MG/M3);STEL 20 PPM (90 MG/M3) JAN93

DEL-FRANCE:TWA 10 PPM (45 MG/M3) JAN93

DEL-HUNGARY:TWA 45 MG/M3;STEL 90 MG/M3;SKIN JAN93

DEL-THE NETHERLANDS:TWA 10 PPM (45 MG/M3) JAN93

DEL-SWITZERLAND:TWA 10 PPM (45 MG/M3) JAN93

DEL-UNITED KINGDOM:TWA 10 PPM (45 MG/M3);STEL 20 PPM (90 MG/M3) JAN93

DEL IN BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV

DEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV

NIOSH REL TO RESORCINOL-AIR:10H TWA 10 PPM;STEL 20 PPM

NIOSH* DHHS #92-100,92

NOHS 1974: HZD 67220; NIS 45; TNF 4488; NOS 42; TNE 40431

NOES 1983: HZD 67220; NIS 30; TNF 6842; NOS 43; TNE 100792; TFE 56465

EPA GENETOX PROGRAM 1988, NEGATIVE: N CRASSA-ANEUPLOIDY; HISTIDINE

REVERSION-AMES TEST

EPA GENETOX PROGRAM 1988, INCONCLUSIVE: MAMMALIAN MICRONUCLEUS

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EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, APRIL 1996
NTP CARCINOGENESIS STUDIES (GAVAGAE); NO EVIDENCE: MOUSE, RAT
NTPTR* NTP-TR-403,92
NTP CARCINOGENESIS STUDIES; LABORATORY ASSIGNED, FEBRUARY 1996

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

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