201-16221

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C International Uniform ChemicaL Information Database
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C Column 6-80: Blockname   / Fieldvalue
C Date       : 26-JUL-2004 10:48:12
C Company    : Arcadis 27713  Durham, NC
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NL   GBR
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B005 SUBST_MASTER_TAB
F001 122-20-3
F002 Y26-001
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B006 SUBST_IDENT_TAB
F001 122-20-3
F002 Y28-001
F003 Y27-001
F004 122-20-3
F005 1
EOR
F001 122-20-3
F002 Y28-002
F003 Y27-006
F004 1,1',1''-nitrilotripropan-2-ol
F005 2
EOR
F001 122-20-3
F002 Y28-001
F003 Y27-002
F004 204-528-4
F005 3
EOR
F001 122-20-3
F002 Y28-002
F003 Y27-030
F004 2-Propanol, 1,1',1''-nitrilotris-
F005 4
EOR
F001 122-20-3
F002 Y28-002
F003 Y27-017
F004 triisopropanolamine
F005 5
EOR
F001 122-20-3
F002 Y28-003
F003 Y27-003
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F004 C9H21NO3
F005 102
EOB
C
B003 DS_ADMIN_TAB
F002 7
F001 122-20-3
F009 N
F005 11030761
F006 02-10-2003
F007 11030761
F008 02-10-2003
F003 28-06-2004
F102 A35-01
EOB
C
B004 COMPANY_TAB
F001 11030761
F003 Arcadis
F004 4915 Prospectus Drive, Suite F
F005 Durham, NC
F006 27713
F008 A31-024
EOB
C
C    ********* N E W   D A T A   S E T *********
C
D    7
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B052 DS_COMPONENT_JOIN_TAB
F001 7
F002 0
F003 1.0.1
F004 1
F005 1
F006 15-10-2003
F007 02-10-2003
EOR
F001 7
F002 0
F003 1.1.0
F004 1
F005 1
F006 07-10-2003
F007 02-10-2003
EOR
F001 7
F002 0
F003 1.1.1
F004 1
F005 1
F006 02-10-2003
F007 02-10-2003
EOR
F001 7
F002 0
F003 2.6.1
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F004 2
F005 2
F006 01-12-2003
F007 02-10-2003
EOR
F001 7
F002 0
F003 3.1.1
F004 2
F005 2
F006 15-10-2003
F007 15-10-2003
EOR
F001 7
F002 0
F003 5.4
F004 6
F005 6
F006 22-10-2003
F007 02-10-2003
EOR
F001 7
F002 0
F003 5.8.3
F004 1
F005 1
F006 16-10-2003
F007 02-10-2003
EOR
F001 7
F002 1
F003 2.1
F004 1
F005 1
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 2.14
F004 1
F005 1
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 2.2
F004 2
F005 2
F006 22-10-2003
F007 15-09-2003
EOR
F001 7
F002 1
F003 2.3
F004 1
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F005 1
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 2.4
F004 2
F005 2
F006 22-10-2003
F007 15-09-2003
EOR
F001 7
F002 1
F003 2.5
F004 1
F005 1
F006 16-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 2.7
F004 1
F005 1
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 3.3.2
F004 1
F005 1
F006 16-10-2003
F007 03-09-2003
EOR
F001 7
F002 1
F003 3.5
F004 1
F005 1
F006 24-11-2003
F007 03-09-2003
EOR
F001 7
F002 1
F003 3.6
F004 1
F005 1
F006 02-10-2003
F007 03-09-2003
EOR
F001 7
F002 1
F003 4.1
F004 1
F005 1
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F006 28-06-2004
F007 03-09-2003
EOR
F001 7
F002 1
F003 4.2
F004 2
F005 2
F006 28-06-2004
F007 03-09-2003
EOR
F001 7
F002 1
F003 4.3
F004 1
F005 1
F006 28-06-2004
F007 04-09-2003
EOR
F001 7
F002 1
F003 4.4
F004 1
F005 1
F006 02-10-2003
F007 03-09-2003
EOR
F001 7
F002 1
F003 4.4
F004 2
F005 2
F006 02-10-2003
F007 03-09-2003
EOR
F001 7
F002 1
F003 4.9
F004 1
F005 1
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 5.1.1
F004 2
F005 2
F006 22-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 5.1.2
F004 1
F005 1
F006 02-10-2003
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F007 16-08-2000
EOR
F001 7
F002 1
F003 5.1.2
F004 2
F005 2
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 5.1.2
F004 3
F005 3
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 5.1.2
F004 4
F005 4
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 5.1.3
F004 1
F005 1
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 5.1.3
F004 2
F005 2
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 5.1.3
F004 3
F005 3
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 5.1.4
F004 1
F005 1
F006 02-10-2003
F007 16-08-2000
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EOR
F001 7
F002 1
F003 5.11
F004 1
F005 1
F006 02-10-2003
F007 29-09-2000
EOR
F001 7
F002 1
F003 5.11
F004 2
F005 2
F006 02-10-2003
F007 29-09-2000
EOR
F001 7
F002 1
F003 5.11
F004 4
F005 4
F006 02-10-2003
F007 29-09-2000
EOR
F001 7
F002 1
F003 5.11
F004 5
F005 5
F006 02-10-2003
F007 29-09-2000
EOR
F001 7
F002 1
F003 5.11
F004 6
F005 6
F006 02-10-2003
F007 29-09-2000
EOR
F001 7
F002 1
F003 5.2.1
F004 1
F005 1
F006 02-10-2003
F007 29-09-2000
EOR
F001 7
F002 1
F003 5.2.1
F004 2
F005 2
F006 02-10-2003
F007 29-09-2000
EOR
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F001 7
F002 1
F003 5.2.1
F004 3
F005 3
F006 02-10-2003
F007 29-09-2000
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F001 7
F002 1
F003 5.2.1
F004 4
F005 4
F006 02-10-2003
F007 29-09-2000
EOR
F001 7
F002 1
F003 5.2.2
F004 1
F005 1
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 5.2.2
F004 2
F005 2
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 5.2.2
F004 4
F005 4
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 5.2.2
F004 5
F005 5
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 5.2.2
F004 6
F005 6
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
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F002 1
F003 5.3
F004 1
F005 1
F006 02-10-2003
F007 29-09-2000
EOR
F001 7
F002 1
F003 5.3
F004 2
F005 2
F006 02-10-2003
F007 29-09-2000
EOR
F001 7
F002 1
F003 5.3
F004 3
F005 3
F006 02-10-2003
F007 29-09-2000
EOR
F001 7
F002 1
F003 5.4
F004 1
F005 1
F006 01-12-2003
F007 29-09-2000
EOR
F001 7
F002 1
F003 5.5
F004 1
F005 1
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 5.6
F004 1
F005 1
F006 02-10-2003
F007 16-08-2000
EOR
F001 7
F002 1
F003 5.8.1
F004 1
F005 1
F006 02-10-2003
F007 29-09-2000
EOR
F001 7
F002 1
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F003 5.8.2
F004 1
F005 1
F006 22-10-2003
F007 16-08-2000
EOB
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B051 DS_COMPONENT_TAB
F001 7
F002 0
F003 122-20-3
F012 N
F010 02-10-2003
F004 11030761
F005 02-10-2003
F006 11030761
F007 02-10-2003
F009 A35-01
EOR
F001 7
F002 1
F003 122-20-3
F012 N
F010 24-09-2003
F004 491000046
F005 06-07-1992
F006 491000046
F007 06-07-1992
F008 master
F009 A35-01
EOB
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B115 GI_COMPANY_TAB
F001 7
F002 1
F003 15-10-2003
F004 IUC4
F007 A34-03
F008 Arcadis
F009 4915 Prospectus Drive, Suite F
F010 Durham, NC
F011 27713
F013 A31-024
F014 919-544-4535
F016 919-544-5690
F018 Jane Staveley
F022 jstaveley@arcadis-us.com
F023 www.arcadis-us.com
EOB
C
B007 GI_SUBSTANCE_TAB
F001 7
F002 1
F003 07-10-2003
F004 IUC4
F008 C9 H21 NO3
F009 191.27
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EOB
C
B101 GI_GENERAL_INFORM_TAB
F001 7
F002 1
F003 02-10-2003
F004 IUC4
F007 A02-05
F008 97
F010 A04-04
F017 C51-001
EOB
C
B201 PC_MELTING_TAB
F001 7
F002 1
F003 02-12-1992
F004 SCHICK
F007 A02-06
F008 50
EOB
C
B202 PC_BOILING_TAB
F001 7
F002 2
F003 22-10-2003
F004 IUC4
F016 A36-003
F007 A02-03
F008 134.2
F010 1.25
F011 P02-01
F013 P03-03: vapour pressure measurement
F014 1972
F015 A03-01
EOB
C
B203 PC_DENSITY_TAB
F001 7
F002 1
F003 02-12-1992
F004 SCHICK
F007 P05-02
F008 A02-03
F009 1.01
F011 P18-01
F012 60
EOB
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B204 PC_VAPOUR_TAB
F001 7
F002 2
F003 22-10-2003
F004 IUC4
F015 A36-003
F007 A02-03
F008 .000000018084
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F010 P02-01
F011 25
F012 P06-04
F013 1972
F014 A03-01
EOB
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B205 PC_PARTITION_TAB
F001 7
F002 1
F003 16-10-2003
F004 IUC4
F007 A02-03
F008 -.015
F011 P07-02
F012 1987
EOB
C
B206 PC_WATER_SOL_TAB
F001 7
F002 2
F003 01-12-2003
F004 IUC4
F007 A02-04
F008 P08-01
F009 1000
F011 20
F018 7.86
F030 C14-001
EOB
C
B207 PC_FLASH_TAB
F001 7
F002 1
F003 02-12-1992
F004 SCHICK
F007 A02-03
F008 160
F009 P10-01
F010 P11-02: DIN 51758
EOB
C
B212 PC_OTHER_TAB
F001 7
F002 1
F003 02-12-1992
F004 SCHICK
EOB
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B301 EN_PHOTODEGRADATION_TAB
F001 7
F002 2
F003 15-10-2003
F004 IUC4
F045 A36-002
F008 F01-01
F034 F06-03
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F044 A02-03
F037 .000000000124029
F040 50
F041 .1
F042 F05-01
EOB
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B306 EN_DISTRIBUTION_TAB
F001 7
F002 1
F003 16-10-2003
F004 IUC4
F010 A36-002
F007 F24-02
F008 F23-03
EOB
C
B308 EN_BIODEGRADATION_TAB
F001 7
F002 1
F003 24-11-2003
F004 IUC4
F009 F26-22
F011 F27-0142
F012 400
F013 F28-02
F015 A02-01
F017 10
F018 28
F019 F05-01
F020 F30-02: poorly eliminated from water
F046 A03-01
EOB
C
B309 EN_BOD_COD_TAB
F001 7
F002 1
F003 03-09-2003
F004 REUSCP
F022 A36-003
EOB
C
B401 EC_FISHTOX_TAB
F001 7
F002 1
F003 28-06-2004
F004 IUC4
F033 A36-002
F007 A01-03: triisopropanolamine, purity: >99 %
F008 E01-05
F009 E02-0075
F010 E03-05: German Industrial Standard DIN 38412, Part 15
F011 1987
F012 96
F013 E04-02
F014 E05-02
F021 A02-04
```

F022 2150
F027 LC50
F028 A02-01
F029 4640
F031 A03-01
F032 A03-01
EOB
C
B402 EC_DAPHNIATOX_TAB
F001 7
F002 2
F003 28-06-2004
F004 IUC4
F032 A36-002
F007 A01-03: triisopropanolamine, purity not reported
F008 E06-0030: Daphnia magna Straus
F009 E07-04: Directive 79/831/EEC, Annex V, Part C
F010 1988
F011 48
F012 E04-02
F013 E05-02
F017 A02-03
F018 250
F020 A02-04
F021 500
F023 A02-04
F024 500
F030 A03-01
F031 A03-01
F042 E01-05
EOB
C
B403 EC_ALGAETOX_TAB
F001 7
F002 1
F003 28-06-2004
F004 IUC4
F036 A36-002
F007 A01-03: triisopropanolamine, purity: >98 %
F008 E08-0055
F009 E09-04: German Industrial Standard DIN 38412, Part 9
F011 E10-01
F012 72
F013 E04-02
F014 E05-02
F024 A02-03
F025 8.84
F027 A02-03
F028 68.93
F030 EC90
F031 A02-04
F032 100
F034 A03-01
F035 A03-01
EOB
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B404 EC_BACTOX_TAB

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F001 7
F002 1
F003 03-09-2003
F004 REUSCP
F034 A36-005
F008 E29-01
F009 E11-0109
F010 E12-06: following DIN 38 412, Part 8
F012 18
F013 E04-02
F014 E05-02
F024 TGK
F025 A02-03
F026 20000
F032 A03-01
F033 A03-01
EOR
F001 7
F002 2
F003 03-09-2003
F004 REUSCP
F008 E29-01
F009 E11-0007
F010 E12-06
F012 30
F013 E04-03
F014 E05-02
F024 EC20
F025 A02-04
F026 1995
F032 A03-01
F033 A03-01
EOB
C
B412 EC_OTHER_TAB
F001 7
F002 1
F003 22-12-1999
F004 RINKE
F009 Further information can be taken from the BUA report No. 148
*    (Triisopropanolamin).
EOB
C
B501 TO_ACUTE_ORAL_TAB
F001 7
F002 2
F003 22-10-2003
F004 IUC4
F017 A36-003
F008 T01-03
F009 T02-24
F010 T03-03
F011 1941
F012 A02-03
F013 6500
F015 T04-01
F016 A03-01
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F019 T24-02
F020 10
F021 T52-007
F022 T23-46
F023 Minimum: 140 mg/kg. Maximum: 1350 mg/kg.
EOB
C
B502 TO_ACUTE_INHAL_TAB
F001 7
F002 1
F003 03-12-1993
F004 HEDSET
F007 A01-01
F008 T05-05: IRT
F009 T02-24
F010 T06-03: no data
F016 8
F017 T08-01
F018 A03-01
EOR
F001 7
F002 2
F003 03-12-1993
F004 HEDSET
F007 A01-01
F008 T05-05: IRT
F009 T02-24
F010 T06-03: BASF-Test
F016 8
F017 T08-01
F018 A03-01
EOR
F001 7
F002 3
F003 03-12-1993
F004 HEDSET
F007 A01-01
F008 T05-05
F009 T02-24
F010 T06-03: no data
F012 A02-03
F013 .6
F015 T07-01
F017 T08-03
F018 A03-02
EOR
F001 7
F002 4
F003 17-01-1994
F004 ZST_P
F007 A01-01
F008 T05-05: IRT
F009 T02-24
F010 T06-03: no data
F016 2
F017 T08-01
F018 A03-01

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EOB
C
B503 TO_ACUTE_DERMAL_TAB
F001 7
F002 1
F003 03-12-1993
F004 HEDSET
F007 A01-01
F008 T01-05
F009 T02-23
F010 T09-02: no data
F012 A02-03
F013 10000
F015 T04-01
F016 A03-01
EOR
F001 7
F002 2
F003 06-12-1993
F004 HEDSET
F007 A01-01
F008 T01-05
F009 T02-23
F010 T09-02: no data
F016 A03-02
EOR
F001 7
F002 3
F003 03-12-1993
F004 HEDSET
F007 A01-01
F008 T01-03
F009 T02-24
F010 T09-02: no data
F012 A02-04
F013 1000
F015 T04-01
F016 A03-02
EOB
C
B504 TO_ACUTE_OTHER_TAB
F001 7
F002 1
F003 03-12-1993
F004 HEDSET
F007 A01-01
F008 T10-07
F009 T02-18
F010 T11-02
F011 other: BASF-Test
F013 A02-03
F014 1400
F016 T12-01
F019 A03-01
EOB
C
B505 TO_SKIN_IRRITATION_TAB
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F001 7
F002 1
F003 05-12-1993
F004 HEDSET
F007 A01-01
F008 T02-23
F009 T14-06: no data
F012 T46-06
F013 A03-01
EOR
F001 7
F002 2
F003 05-12-1993
F004 HEDSET
F007 A01-03: 1.1% Triisopropanolamine in lotion
F008 T02-23
F009 T14-06: no data
F012 T46-06
F013 A03-01
EOR
F001 7
F002 3
F003 05-12-1993
F004 HEDSET
F007 A01-01
F008 T02-23
F009 T14-06: BASF-Test
F012 T46-06
F013 A03-01
EOR
F001 7
F002 4
F003 06-12-1993
F004 HEDSET
F007 A01-01
F008 T02-23
F009 T14-06: no data
F012 T46-04
F013 A03-02
EOB
C
B506 TO_EYE_IRRITATION_TAB
F001 7
F002 1
F003 05-12-1993
F004 HEDSET
F007 A01-01
F008 T02-23
F009 T16-04: no data
F012 T46-04
F013 A03-01
EOR
F001 7
F002 2
F003 05-12-1993
F004 HEDSET
F007 A01-01
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F008 T02-23
F009 T16-04: no data
F012 T46-04
F013 A03-02
EOR
F001 7
F002 4
F003 05-12-1993
F004 HEDSET
F007 A01-01
F008 T02-23
F009 T16-04: BASF-Test
F012 T46-06
F013 A03-01
EOR
F001 7
F002 5
F003 05-12-1993
F004 HEDSET
F007 A01-01
F008 T02-23
F009 T16-04: Smyth Carpenter
F012 T46-04
F013 A03-01
EOR
F001 7
F002 6
F003 06-12-1993
F004 HEDSET
F007 A01-01
F008 T02-23
F009 T16-04: no data
F012 T46-04
F013 A03-02
EOB
C
B507 TO_SENSITIZATION_TAB
F001 7
F002 1
F003 06-12-1993
F004 HEDSET
F007 A01-03: lotion containing 1.1% Triisopropanolamine
F008 T18-14: Maximization Test
F009 T02-13
F010 T20-03: J.I.D. 47 (5) 393-409
F011 1966
F013 T21-02
F014 A03-01
EOR
F001 7
F002 2
F003 05-12-1993
F004 HEDSET
F007 A01-01
F008 T18-14
F009 T02-10
F010 T20-03: according to Alekseeva et al.: Gig. i San. 7, 68-71

F011 1975
F013 T21-02
F014 A03-02
EOR
F001 7
F002 3
F003 06-12-1993
F004 HEDSET
F007 A01-03: lotion containing 1.1% Triisopropanolamine
F008 T18-10
F009 T02-13
F010 T20-03: open and closed patch-test
F013 T21-02
F014 A03-01
EOB
C
B508 TO_REPEATED_DOSE_TAB
F001 7
F002 1
F003 01-12-2003
F004 IUC4
F030 A36-003
F008 T02-24
F009 T23-47
F010 T24-03
F011 T25-02
F012 T26-16
F014 30 days
F015 continuously in the drinking water
F016 no data
F017 140 mg/kg - 1350 mg/kg
F018 T27-04
F020 140
F022 T28-02
F029 A03-01
EOR
F001 7
F002 6
F003 22-10-2003
F004 IUC4
F030 A36-005
F008 T02-24
F009 T23-46
F010 T24-02
F011 T25-09
F012 T26-16
F013 1991
F014 102 weeks
F017 Single dose, approximately equal to 1216 mg/kg bw/day
F018 T27-04
F019 A02-04
F020 1216
F022 T28-03
F029 A03-02
EOB
C
B509 TO_GENETIC_IN_VITRO_TAB

F001 7
F002 1
F003 05-12-1993
F004 HEDSET
F007 A01-01
F008 T30-01
F009 T31-18: according to Haworth, S. et al.: Environ. Mutagen. 5, Suppl. 1,
* 3-142
F010 1983
F011 Salmonella typhimurium TA98, TA100, TA1535, TA1537
F012 T32-03
F013 T33-02
F014 A03-02
F015 up to 10 mg/plate.
EOB
C
B510 TO_GENETIC_IN_VIVO_TAB
F001 7
F002 1
F003 21-06-1996
F004 WIENCH
F007 A01-03
F008 T34-07
F009 T02-18
F010 T23-28
F011 T37-08
F013 T24-03
F014 T25-03
F016 500, 1000, 2000 mg/kg bw in a volume of 10ml/kg bw
F017 A03-03
EOB
C
B512 TO_REPRODUCTION_TAB
F001 7
F002 1
F003 05-12-1993
F004 HEDSET
F007 A01-01
F008 T41-04: no data
F009 T02-24
F010 T23-47
F011 T24-01
F012 T25-11: no data (presumably orally)
F036 throughout pregnancy (no further data)
F013 T40-05: no data
F015 no data
F018 no data
F019 0.063 mg/kg/d
F020 T27-02
F035 A03-02
EOB
C
B513 TO_DEVELOPMENTAL_TAB
F001 7
F002 1
F003 22-10-2003
F004 IUC4

F007 A01-03
F008 T02-24
F009 T23-46
F010 T24-01
F011 T25-03
F012 T44-02
F014 until day 20 p.c.
F015 on day 6 through day 15 p.c.
F016 daily
F017 100; 400; 1000 mg/kg
F018 T27-07
F020 400
F022 T43-02
F023 A02-05
F024 1000
F026 T43-02
F029 A03-03
EOB
C
B018 TO_REPRODUCTION_OTHER_TAB
F001 7
F002 1
F003 16-10-2003
F004 IUC4
F005 A36-005
F008 C08-002
F009 T02-24
F010 T23-46
F011 T24-02
F012 T25-09
F013 102 weeks
F015 102 weeks
F017 Single dose, approximately equal to 1216 mg/kg bw/day
F018 T27-04
F019 C39-001: study was designed to examine carcinogenic effects
F020 1991
F021 A03-02
EOB
C
B514 TO_OTHER_TAB
F001 7
F002 1
F003 05-12-1993
F004 HEDSET
F007 T45-12
EOR
F001 7
F002 2
F003 05-12-1993
F004 HEDSET
F007 T45-12: irritation
EOR
F001 7
F002 4
F003 05-12-1993
F004 HEDSET
F007 T45-12: review

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EOR
F001 7
F002 5
F003 05-12-1993
F004 HEDSET
F007 T45-12
EOR
F001 7
F002 6
F003 06-12-1993
F004 HEDSET
F007 T45-12: review
EOB
C
B601 TEXT_TAB
F002 7
F010 1.1.1
F004 1
F005 ME
F006 GC
F007 GC
F020 637
EOR
F002 7
F010 1.1.1
F004 1
F005 RE
F006 BASF AG, Safety data sheet, TRIISOPROPANOLAMINE, 09.11.1999
F007 BASF AG, Safety data sheet, TRIISOPROPANOLAMINE, 09.11.1999
F020 638
EOR
F002 7
F010 2.1
F004 1
F005 RE
F006 BASF AG, Sicherheitsdatenblatt TRIISOPROPANOLAMIN (4/91)
F007 BASF AG, Sicherheitsdatenblatt TRIISOPROPANOLAMIN (4/91)
F008 AIDA
F009 02-12-1992
F020 418
EOR
F002 7
F010 2.1
F004 1
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 419
EOR
F002 7
F010 2.14
F004 1
F005 RE
F006 BASF AG, Sicherheitsdatenblatt TRIISOPROPANOLAMIN (4/91)
F007 BASF AG, Sicherheitsdatenblatt TRIISOPROPANOLAMIN (4/91)
```

F008 AIDA
F009 02-12-1992
F020 420
EOR
F002 7
F010 2.14
F004 1
F005 RM
F006 Explosionsgrenzen in Luft: 0.8 - 5.8 Vol. %
** Zuendtemperatur: 275 Grad C (DIN 51794)
** Gefaehrliche Reaktionen: exotherme Reaktion mit Saeuren
F007 Explosionsgrenzen in Luft: 0.8 - 5.8 Vol. %
** Zuendtemperatur: 275 Grad C (DIN 51794)
** Gefaehrliche Reaktionen: exotherme Reaktion mit Saeuren
F008 AIDA
F009 02-12-1992
F020 421
EOR
F002 7
F010 2.14
F004 1
F005 SO
F006 BASF AG Ludwigshafen
F007 BASF AG Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 422
EOR
F002 7
F010 2.2
F004 2
F005 ME
F006 Dynamic method
F007 Dynamic method
F008 AIDA
F020 424
EOR
F002 7
F010 2.2
F004 2
F005 RE
F006 BASF AG, Verfahrenstechnik, unpublished results, report no. 172.096.1,
* April 6, 1972
F007 BASF AG, Verfahrenstechnik, unpublished results, report no. 172.096.1,
* April 6, 1972
F008 AIDA
F020 425
EOR
F002 7
F010 2.2
F004 2
F005 RL
F006 Acceptable study, meets basic scientific principles
F007 Acceptable study, meets basic scientific principles
F008 AIDA
F020 426
EOR

```
F002 7
F010 2.2
F004 2
F005 RS
F006 measured values:
**
**   temperature    vapour pressure    vapour pressure
**      (°C)            (torr)             (hPa)
**   134.2             0.94               1.25
**   144.7             1.74               2.31
**   155.7             3.18               4.2
F007 measured values:
**
**   temperature    vapour pressure    vapour pressure
**      (°C)            (torr)             (hPa)
**   134.2             0.94               1.25
**   144.7             1.74               2.31
**   155.7             3.18               4.24
**   165.3             5.30               7.07
**   175.9             8.88              11.84
**   186.2            14.3               19.07
**   198.8            24.9               33.20
**   199.8            25.5               34.00
**   214.4            45.3               60.40
**   228.3            80.1              106.80
**   244.8           140.0              186.65
**   263.6           240.0              319.97
**   267.5           320.2              426.90
**   270.4           338.1              450.76
**   272.6           329.8              439.70
**   277.0           355.5              473.96
**   287.5           530.0              706.61
**   301.1           760.0             1013.25
**
**   The regression of the results leads with a mean deviation of 3.18 % to
*    the following equation:
**
**   P.VL(T) = EXP(A + B/T + C*LN(T) + D*T**E)
**
**   A =  838.1367
**   B = -42064.89
**   C = -130.1468
**   D = 0.1279836
**   E =         1
F008 AIDA
F020 427
EOR
F002 7
F010 2.2
F004 2
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 430
EOR
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F002 7
F010 2.2
F004 2
F005 TS
F006 Triisopropanolamine, no further data
F007 Triisopropanolamine, no further data
F008 AIDA
F020 428
EOR
F002 7
F010 2.3
F004 1
F005 RE
F006 BASF AG, Sicherheitsdatenblatt TRIISOPROPANOLAMIN (4/91)
F007 BASF AG, Sicherheitsdatenblatt TRIISOPROPANOLAMIN (4/91)
F008 AIDA
F009 02-12-1992
F020 431
EOR
F002 7
F010 2.3
F004 1
F005 RM
F006 DIN 51757
F007 DIN 51757
F008 AIDA
F009 02-12-1992
F020 432
EOR
F002 7
F010 2.3
F004 1
F005 SO
F006 BASF AG Ludwigshafen
F007 BASF AG Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 433
EOR
F002 7
F010 2.4
F004 2
F005 ME
F006 Dynamic method
F007 Dynamic method
F008 AIDA
F020 435
EOR
F002 7
F010 2.4
F004 2
F005 RE
F006 BASF AG, Verfahrenstechnik, unpublished results, report no. 172.096.1,
* April 6, 1972
F007 BASF AG, Verfahrenstechnik, unpublished results, report no. 172.096.1,
* April 6, 1972
F008 AIDA

F020 436
EOR
F002 7
F010 2.4
F004 2
F005 RL
F006 Acceptable study, meets basic scientific principles
F007 Acceptable study, meets basic scientific principles
F008 AIDA
F020 437
EOR
F002 7
F010 2.4
F004 2
F005 RS
F006 measured values:
**

**	temperature (°C)	vapour pressure (torr)	vapour pressure (hPa)
**	134.2	0.94	1.25
**	144.7	1.74	2.31
**	155.7	3.18	4.2

F007 measured values:
**

**	temperature (°C)	vapour pressure (torr)	vapour pressure (hPa)
**	134.2	0.94	1.25
**	144.7	1.74	2.31
**	155.7	3.18	4.24
**	165.3	5.30	7.07
**	175.9	8.88	11.84
**	186.2	14.3	19.07
**	198.8	24.9	33.20
**	199.8	25.5	34.00
**	214.4	45.3	60.40
**	228.3	80.1	106.80
**	244.8	140.0	186.65
**	263.6	240.0	319.97
**	267.5	320.2	426.90
**	270.4	338.1	450.76
**	272.6	329.8	439.70
**	277.0	355.5	473.96
**	287.5	530.0	706.61
**	301.1	760.0	1013.25

**
** The regression of the results leads with a mean deviation of 3.18 % to
* the following equation:
**
** P.VL(T) = EXP(A + B/T + C*LN(T) + D*T**E)
**
** A = 838.1367
** B = -42064.89
** C = -130.1468
** D = 0.1279836
** E = 1
**
** The Vapour Pressure at 20 °C, 25 °C and 50 °C was calculated from the

```
*     regression equation:
**
**    temperature (°C)    vapour pressure (hPa)
**    20                   7.7665E-09
**    25                   1.8084E-08
**    50                   6.8550E-07
F008 AIDA
F020 438
EOR
F002 7
F010 2.4
F004 2
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 441
EOR
F002 7
F010 2.4
F004 2
F005 TS
F006 Triisopropanolamine, no further data
F007 Triisopropanolamine, no further data
F008 AIDA
F020 439
EOR
F002 7
F010 2.5
F004 1
F005 RE
F006 BASF AG, Analytisches Labor; unveroeffentlichte
**    Untersuchung, BRU 87.262, 18.12.1987
F007 BASF AG, Analytisches Labor; unveroeffentlichte
**    Untersuchung, BRU 87.262, 18.12.1987
F008 AIDA
F009 02-12-1992
F020 442
EOR
F002 7
F010 2.5
F004 1
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 444
EOR
F002 7
F010 2.6.1
F004 2
F005 RE
F006 BUA, Triisopropanolamine, BUA Report 148. German Chemical Society (GDCh)
*     - Advisory Committee on Existing Chemicals of Environmental Relevance
*     (BUA). (1993)
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F007 BUA, Triisopropanolamine, BUA Report 148. German Chemical Society (GDCh)
* - Advisory Committee on Existing Chemicals of Environmental Relevance
* (BUA). (1993)
F020 804
EOR
F002 7
F010 2.6.1
F004 2
F005 RE
F006 The Dow Chemical Company, 1988. Physical properties of the alkanolamines.
* Form No. 111-1227-88. The Dow Chemical Company, Midland MI. Cited in
* Davis, J.W. and Carpenter, C.L., 1997, Environmental assessment of the
* alkanolamines, Reviews of
F007 The Dow Chemical Company, 1988. Physical properties of the alkanolamines.
* Form No. 111-1227-88. The Dow Chemical Company, Midland MI. Cited in
* Davis, J.W. and Carpenter, C.L., 1997, Environmental assessment of the
* alkanolamines, Reviews of Environmental Contamination and Toxicology
* 149:87-137.
F020 639
EOR
F002 7
F010 2.7
F004 1
F005 RE
F006 BASF AG, Sicherheitsdatenblatt TRIISOPROPANOLAMIN (4/91)
F007 BASF AG, Sicherheitsdatenblatt TRIISOPROPANOLAMIN (4/91)
F008 AIDA
F009 02-12-1992
F020 448
EOR
F002 7
F010 2.7
F004 1
F005 SO
F006 BASF AG Ludwigshafen
F007 BASF AG Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 449
EOR
F002 7
F010 3.1.1
F004 2
F005 ME
F006 APOWIN v1.91 (EPIWIN v3.11)
F007 APOWIN v1.91 (EPIWIN v3.11)
F020 746
EOR
F002 7
F010 3.1.1
F004 2
F005 RL
F006 calculated using scientifically acceptable method
F007 calculated using scientifically acceptable method
F020 744
EOR
F002 7

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F010 3.1.1
F004 2
F005 RM
F006 assumed data: 1.5E6 OH/cm3; 12-h day
F007 assumed data: 1.5E6 OH/cm3; 12-h day
F020 745
EOR
F002 7
F010 3.1.1
F004 2
F005 RS
F006
**   AOP Program (v1.91) Results:
**   ============================
**   SMILES : OC(C)CN(CC(O)C)CC(O)C
**   CHEM   : 2-Propanol, 1,1',1''-nitrilotris-
**   MOL FOR: C9 H21 N1 O3
**   MOL WT : 191.27
**   --------------- SUMMARY (AOP v1.91): HYDROXYL RADICALS --------
**   Hydro
F007
**   AOP Program (v1.91) Results:
**   ============================
**   SMILES : OC(C)CN(CC(O)C)CC(O)C
**   CHEM   : 2-Propanol, 1,1',1''-nitrilotris-
**   MOL FOR: C9 H21 N1 O3
**   MOL WT : 191.27
**   --------------- SUMMARY (AOP v1.91): HYDROXYL RADICALS --------
**   Hydrogen Abstraction      =  57.6090 E-12 cm3/molecule-sec
**   Reaction with N, S and -OH =  66.4200 E-12 cm3/molecule-sec
**   Addition to Triple Bonds  =   0.0000 E-12 cm3/molecule-sec
**   Addition to Olefinic Bonds =  0.0000 E-12 cm3/molecule-sec
**   Addition to Aromatic Rings =  0.0000 E-12 cm3/molecule-sec
**   Addition to Fused Rings   =   0.0000 E-12 cm3/molecule-sec
**
**      OVERALL OH Rate Constant = 124.0290 E-12 cm3/molecule-sec
**      HALF-LIFE =     0.086 Days (12-hr day; 1.5E6 OH/cm3)
**      HALF-LIFE =     1.035 Hrs
**   --------------- SUMMARY (AOP v1.91): OZONE REACTION -----------:
**
**                  ******  NO OZONE REACTION ESTIMATION ******
**                  (ONLY Olefins and Acetylenes are Estimated)
**
**   Experimental Database:  NO Structure Matches
**
F020 747
EOR
F002 7
F010 3.3.2
F004 1
F005 ME
F006 EPIWIN v3.11
F007 EPIWIN v3.11
F008 AIDA
F020 462
EOR
F002 7
```

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F010 3.3.2
F004 1
F005 RL
F006 calculated using scientifically acceptable method
F007 calculated using scientifically acceptable method
F008 AIDA
F020 464
EOR
F002 7
F010 3.3.2
F004 1
F005 RS
F006
**   Level III Fugacity Model (Full-Output):
**   ========================================
**     Chem Name    : 2-Propanol, 1,1',1''-nitrilotris-
**     Molecular Wt: 191.27
**     Henry's LC   : 9.77e-012 atm-m3/mole (Henrywin program)
**     Vapor Press  : 1.86e-005 mm
F007
**   Level III Fugacity Model (Full-Output):
**   ========================================
**     Chem Name    : 2-Propanol, 1,1',1''-nitrilotris-
**     Molecular Wt: 191.27
**     Henry's LC   : 9.77e-012 atm-m3/mole (Henrywin program)
**     Vapor Press  : 1.86e-005 mm Hg  (Mpbpwin program)
**     Liquid VP    : 6.31e-005 mm Hg  (super-cooled)
**     Melting Pt   : 78.6 deg C (Mpbpwin program)
**     Log Kow      : -1.22  (Kowwin program)
**     Soil Koc     : 0.0247  (calc by model)
**
**              Mass Amount    Half-Life    Emissions
**               (percent)       (hr)        (kg/hr)
**      Air       0.000321       2.07         1000
**      Water     45.3           360          1000
**      Soil      54.6           360          1000
**      Sediment  0.0755         1.44e+003    0
**
**                Fugacity    Reaction    Advection   Reaction   Advection
**                 (atm)      (kg/hr)     (kg/hr)     (percent)  (percent)
**      Air       5.1e-015    1.36        0.0405      0.0452     0.00135
**      Water     1.46e-016   1.1e+003    572         36.7       19.1
**      Soil      6.5e-015    1.33e+003   0           44.2       0
**      Sediment  1.22e-016   0.459       0.0191      0.0153     0.000635
**
**      Persistence Time: 420 hr
**      Reaction Time:    519 hr
**      Advection Time:   2.21e+003 hr
**      Percent Reacted:  80.9
**      Percent Advected: 19.1
**
**      Half-Lives (hr), (based upon Biowin (Ultimate) and Aopwin):
**         Air:      2.07
**         Water:    360
**         Soil:     360
**         Sediment: 1440
**           Biowin estimate: 3.002  (weeks)
```

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**
**      Advection Times (hr):
**         Air:      100
**         Water:    1000
**         Sediment: 5e+004
**
**
**   ---------------------------------------------------------------------------
*    ----
F020 748
EOR
F002 7
F010 3.5
F004 1
F005 RE
F006 BASF AG, Labor Oekologie; unveroeffentlichte Unter-
**   suchung, No. 7, 1981
F007 BASF AG, Labor Oekologie; unveroeffentlichte Unter-
**   suchung, No. 7, 1981
F008 AIDA
F009 01-12-1992
F020 468
EOR
F002 7
F010 3.5
F004 1
F005 RM
F006 Other information (Davis and Carpenter, 1997) indicates that
*    biodegradation of triisopropanolamine increases from a 5-day BOD value of
*    <5% using an unacclimated inoculum to 40-50% using an acclimated
*    inoculum. In a simulation test with dilu
F007 Other information (Davis and Carpenter, 1997) indicates that
*    biodegradation of triisopropanolamine increases from a 5-day BOD value of
*    <5% using an unacclimated inoculum to 40-50% using an acclimated
*    inoculum. In a simulation test with dilute activated sludge,
*    diisopropanolamine was completely degraded within 72-120 hours; since
*    this compound is a major metabolite of the aerobic biodegradation of
*    triisopropanolamine, similar results would be expected for
*    triisopropanolamine (Davis, J.W. and Carpenter, C.L., 1997. Environmental
*    assessment of the alkanolamines. Reviews of Environmental Contamination
*    and Toxicology, Vol. 149, pp. 87-137).
F020 784
EOR
F002 7
F010 3.5
F004 1
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 469
EOR
F002 7
F010 3.6
F004 1
F005 ME
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F006 DIN 38409 T51
**   DIN 38409 T41
F007 DIN 38409 T51
**   DIN 38409 T41
F008 AIDA
F020 470
EOR
F002 7
F010 3.6
F004 1
F005 RE
F006 BASF AG, Department of Ecology, unpublished study, 11.03.1981
F007 BASF AG, Department of Ecology, unpublished study, 11.03.1981
F008 AIDA
F020 471
EOR
F002 7
F010 3.6
F004 1
F005 RL
F006 test according to National Standard with restriction
F007 test according to National Standard with restriction
F008 AIDA
F020 472
EOR
F002 7
F010 3.6
F004 1
F005 RM
F006 inoculum:
**   effluent of an industrial waste water treatment plant
F007 inoculum:
**   effluent of an industrial waste water treatment plant
F008 AIDA
F020 473
EOR
F002 7
F010 3.6
F004 1
F005 RS
F006 COD:            1963 mg/g
**   BOD5:             <2 mg/g
**   TOC:             556 mg/g
**   BOD5*100/COD:      0 % (no degradation)
F007 COD:            1963 mg/g
**   BOD5:             <2 mg/g
**   TOC:             556 mg/g
**   BOD5*100/COD:      0 % (no degradation)
F008 AIDA
F020 474
EOR
F002 7
F010 3.6
F004 1
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
```

F008 IUC4
F009 02-10-2003
F020 475
EOR
F002 7
F010 4.1
F004 1
F005 ME
F006 Test concentrations of 1000, 2150, 4640 and 10000 mg/L were used. To
* study the effect of the high pH on toxicity, the highest test
* concentration was tested in parallel after pH adjustment. Ten fish were
* exposed to each test concentration. T
F007 Test concentrations of 1000, 2150, 4640 and 10000 mg/L were used. To
* study the effect of the high pH on toxicity, the highest test
* concentration was tested in parallel after pH adjustment. Ten fish were
* exposed to each test concentration. The fish ranged in length from 5.3 to
* 6.3 cm, with an average of 5.7 cm, and ranged in weight from 2.2 to 3.9 g
* with an average of 2.8 g. The age of the test fish was not reported. Fish
* were held for approximately 6 weeks after receipt from the supplier.
* Mortality and any abnormal symptoms were observed at 1, 4, 24, 48, 72 and
* 96 hours of exposure
F020 759
EOR
F002 7
F010 4.1
F004 1
F005 RE
F006 BASF AG; Department of Toxicology; unpublished results
** (87/271), 02.12.87
F007 BASF AG; Department of Toxicology; unpublished results
** (87/271), 02.12.87
F008 HEDSET
F009 03-12-1993
F020 476
EOR
F002 7
F010 4.1
F004 1
F005 RL
F006 Test conducted according to standard procedure and with appropriate
* documentation.
F007 Test conducted according to standard procedure and with appropriate
* documentation.
F020 761
EOR
F002 7
F010 4.1
F004 1
F005 RS
F006 Initial pH ranged from 8.1 in the control to 10.0 in the 10000 mg/L test
* concentration; final pH ranged from 8.0 in the control to 9.7 in the
* 10000 mg/L test concentration. Initial dissolved oyxgen was 8.2 or 8.3
* mg/L in all test concentrat
F007 Initial pH ranged from 8.1 in the control to 10.0 in the 10000 mg/L test
* concentration; final pH ranged from 8.0 in the control to 9.7 in the
* 10000 mg/L test concentration. Initial dissolved oyxgen was 8.2 or 8.3
* mg/L in all test concentrations; final dissolved oxygen ranged from 8.2

```
*    mg/L in the 2150 mg/L test concentration to 8.9 mg/L in the 10000 mg/L
*    test concentration. Temperature was 20 degrees Centigrade in all test
*    concentrations at all 24-h measurement intervals.
**
**   All fish exposed to the highest concentration died within 24 hours. At 96
*    hours, mortality was 0/10, 0/10, 0/10, 10/10, and 10/10 for the control,
*    1000 mg/L, 2150 mg/L, 4640 mg/L and 10000 mg/L test concentrations,
*    respectively. In the pH-adjusted 10000 mg/L test solution, mortality was
*    10 out of 10 at 96 hours. The 96-h LC50 was between 2150 and 4640 mg/L,
*    as determined using probit analysis. The NOEC was 2150 mg/L.
F020 758
EOR
F002 7
F010 4.1
F004 1
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 480
EOR
F002 7
F010 4.1
F004 1
F005 TC
F006 Test concentrations were prepared in reconstituted fresh water, hardness
*    2.5 mmol/L, pH approx. 8.0. The test was conducted using a photoperiod of
*    16 hours light and 8 hours darkness. Temperature was 20 degrees
*    Centigrade. Slight aeration w
F007 Test concentrations were prepared in reconstituted fresh water, hardness
*    2.5 mmol/L, pH approx. 8.0. The test was conducted using a photoperiod of
*    16 hours light and 8 hours darkness. Temperature was 20 degrees
*    Centigrade. Slight aeration was provided. Food was withdrawn from fish 1
*    day prior to exposure. Loading of fish was 2.8 g per liter of test water.
F020 844
EOR
F002 7
F010 4.2
F004 2
F005 ME
F006 Seven test concentrations (7.81, 15.6, 31.2, 62.5, 125, 250 and 500 mg/L)
*    and a control were used. Four replicates were used at each concentration,
*    with 5 animals per replicate for a total of 20 animals per test
*    concentration. The age of th
F007 Seven test concentrations (7.81, 15.6, 31.2, 62.5, 125, 250 and 500 mg/L)
*    and a control were used. Four replicates were used at each concentration,
*    with 5 animals per replicate for a total of 20 animals per test
*    concentration. The age of the test organisms was 2 - 24 hours old.
*    Immobilization was observed at 0, 3, 6, 24 and 48 hours of exposure.
F020 845
EOR
F002 7
F010 4.2
F004 2
F005 RE
F006 BASF AG, Labor Oekologie; unveroeffentlichte Unter-
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**    suchung, 1133/87, 27.01.1987
F007 BASF AG, Labor Oekologie; unveroeffentlichte Unter-
**    suchung, 1133/87, 27.01.1987
F008 AIDA
F009 01-12-1992
F020 482
EOR
F002 7
F010 4.2
F004 2
F005 RL
F006 Test conducted according to standard procedure and with appropriate
*    documentation.
F007 Test conducted according to standard procedure and with appropriate
*    documentation.
F020 760
EOR
F002 7
F010 4.2
F004 2
F005 RS
F006 The number of immobile organisms after 48 hours was: 0/20, 0/20, 0/20,
*    0/20, 0/20, 0/20, 0/20 and 3/20 in the control, 7.81, 15.6, 31.2, 62.5,
*    125, 250 and 500 mg/L test concentrations, respectively. The initial pH
*    ranged from 8.01 in the c
F007 The number of immobile organisms after 48 hours was: 0/20, 0/20, 0/20,
*    0/20, 0/20, 0/20, 0/20 and 3/20 in the control, 7.81, 15.6, 31.2, 62.5,
*    125, 250 and 500 mg/L test concentrations, respectively. The initial pH
*    ranged from 8.01 in the control to 9.05 in the 500 mg/L test
*    concentration, and the final pH ranged from 7.56 in the control to 8.35
*    in the 500 mg/L test concentration. The initial dissolved oxygen ranged
*    from 8.60 in the control to 8.79 in the 250 mg/L test concentration,
*    while the final dissolved oxygen ranged from 8.23 in the 250 mg/L test
*    concentration to 8.94 mg/L in the 7.81 mg/L test concentration.
**
**    Effect values after 24 h and 48 hours were the same. Expressed as the
*    nominal concentrations:
**
**    EC0   (24 h): =250 mg/L
**    EC50  (24 h): >500 mg/L
**    EC100 (24 h): >500 mg/L
**
**    No statistical methods were employed (due to lack of sufficient
*    immobilization to calculate EC50).
F008 AIDA
F020 483
EOR
F002 7
F010 4.2
F004 2
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 484
EOR
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F002 7
F010 4.2
F004 2
F005 TC
F006 Tests were conducted in water with a pH of 7.9, hardness of 2.77 mmol/L,
* and conductivity of 550 - 650 microSiemens/cm. The temperature was 291 -
* 293 degrees Kelvin (18 - 20 degrees Celsius) and the photoperiod was 16
* hours light and 8 hour
F007 Tests were conducted in water with a pH of 7.9, hardness of 2.77 mmol/L,
* and conductivity of 550 - 650 microSiemens/cm. The temperature was 291 -
* 293 degrees Kelvin (18 - 20 degrees Celsius) and the photoperiod was 16
* hours light and 8 hours dark.
F020 846
EOR
F002 7
F010 4.3
F004 1
F005 ME
F006 The test was conducted using OECD medium with a conductivity of 8.03
* microSiemens/cm and a pH of 9.63. An initial algal inoculum of 10,000
* cells/mL was exposed at each of 7 test concentrations and a control. The
* nominal test concentrations
F007 The test was conducted using OECD medium with a conductivity of 8.03
* microSiemens/cm and a pH of 9.63. An initial algal inoculum of 10,000
* cells/mL was exposed at each of 7 test concentrations and a control. The
* nominal test concentrations were control, 1.562, 3.125, 6.25, 12.5, 25,
* 50 and 100 mg/L. In addition, a neutralized 100 mg/L treatment was tested
* to examine the effects of pH on toxicity. Tests were conducted using 100
* mL of test solution in 250 mL Erlenmeyer flasks, with 4 replicates per
* test treatment, at 293 degrees Kelvin (20 degrees Celsius). Light
* intensity and quality were not reported. Fluorescence was measured in
* each test vessel at 24, 48 and 72 hours.
F020 847
EOR
F002 7
F010 4.3
F004 1
F005 RE
F006 BASF AG, Department of Ecology, unpublished study, 1090/88, 19.12.1990
F007 BASF AG, Department of Ecology, unpublished study, 1090/88, 19.12.1990
F008 AIDA
F009 01-12-1992
F020 485
EOR
F002 7
F010 4.3
F004 1
F005 RE
F006 BASF AG, Department of Product Safety, unpublished
** calculation, 04.09.2003
F007 BASF AG, Department of Product Safety, unpublished
** calculation, 04.09.2003
F008 AIDA
F020 486
EOR
F002 7
F010 4.3

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F004 1
F005 RL
F006 test procedure according to National Standard (German Industrial Standard
*    DIN)
F007 test procedure according to National Standard (German Industrial Standard
*    DIN)
F008 AIDA
F020 487
EOR
F002 7
F010 4.3
F004 1
F005 RM
F006 Effect values were originally reported based upon inhibition of
*    fluorescence at 72 h. These results were:
**   EC20 = 11 mg/L
**   EC50 = 35 mg/L
**   EC90 > 100 mg/L
**
**   Effect values were recalculated according to OECD Guideline 201 for
*    growth rate and bio
F007 Effect values were originally reported based upon inhibition of
*    fluorescence at 72 h. These results were:
**   EC20 = 11 mg/L
**   EC50 = 35 mg/L
**   EC90 > 100 mg/L
**
**   Effect values were recalculated according to OECD Guideline 201 for
*    growth rate and biomass using linear regression
**   analysis considering fluorescence values mentioned in the report (BASF
*    AG, Department of Ecology, unpublished data, 1090/88, 19.12.1990). This
*    recalculation yielded 72 h growth rate values of:
**
**   ErC10 = 16.1 mg/L
**   ErC50 > 100 mg/L
**   ErC90 > 100 mg/L
**
**   and biomass values of:
**   EbC10 = 8.84 mg/L
**   EbC50 = 68.93 mg/L
**   EbC90 > 100.0 mg/L
**
**   The most sensitive results are those based upon biomass.
F008 AIDA
F020 488
EOR
F002 7
F010 4.3
F004 1
F005 RS
F006 Effect values related to nominal concentration of the test
**   substance. Results are based upon measurement of fluorescence as a
*    surrogate for cell density, which was subsequently recalculated to
*    reflect growth rate and biomass as explained ab
F007 Effect values related to nominal concentration of the test
**   substance. Results are based upon measurement of fluorescence as a
*    surrogate for cell density, which was subsequently recalculated to
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*     reflect growth rate and biomass as explained above. At 72 hours, the
*     percent fluorescence, compared to the control, was:
**     100% at 1.562 mg/L
**      97% at 3.125 mg/L
**      87% at 6.25 mg/L
**      76% at 12.5 mg/L
**      55% at 25 mg/L
**      43% at 50 mg/L
**      40% at 100 mg/L
**      57% at the neutralized 100 mg/L
**
**    Statistical methods used to calculate EC values were not reported.
**
F008 AIDA
F020 490
EOR
F002 7
F010 4.3
F004 1
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 491
EOR
F002 7
F010 4.4
F004 1
F005 ME
F006 test substance tested after neutralization
F007 test substance tested after neutralization
F008 AIDA
F020 492
EOR
F002 7
F010 4.4
F004 1
F005 RE
F006 BASF AG, Analytisches Labor; unveroeffentlichte Unter-
**    suchung, 307371, 28.04.1988
F007 BASF AG, Analytisches Labor; unveroeffentlichte Unter-
**    suchung, 307371, 28.04.1988
F008 AIDA
F009 01-12-1992
F020 493
EOR
F002 7
F010 4.4
F004 1
F005 RL
F006 original reference not available
F007 original reference not available
F008 AIDA
F020 494
EOR
F002 7
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F010 4.4
F004 1
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 498
EOR
F002 7
F010 4.4
F004 2
F005 RE
F006 BASF AG, Labor Oekologie; unveroeffentlichte Unter-
**   suchung, No. 7, 1981
F007 BASF AG, Labor Oekologie; unveroeffentlichte Unter-
**   suchung, No. 7, 1981
F008 AIDA
F009 01-12-1992
F020 495
EOR
F002 7
F010 4.4
F004 2
F005 RM
F006 Bei sachgemaesser Einleitung in adaptierte biologische
**   Klaer- anlagen sind keine Stoerungen der Abbauaktivitaet des
**   Belebt- schlamms zu erwarten.
F007 Bei sachgemaesser Einleitung in adaptierte biologische
**   Klaer- anlagen sind keine Stoerungen der Abbauaktivitaet des
**   Belebt- schlamms zu erwarten.
F008 AIDA
F009 01-12-1992
F020 496
EOR
F002 7
F010 4.4
F004 2
F005 RM
F006 Hoechste getestete Konzentration: 1995 mg/l; foerdernde
**   Wirkung.
F007 Hoechste getestete Konzentration: 1995 mg/l; foerdernde
**   Wirkung.
F008 AIDA
F009 01-12-1992
F020 497
EOR
F002 7
F010 4.4
F004 2
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 499
EOR
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F002 7
F010 4.9
F004 1
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 500
EOR
F002 7
F010 5.1.1
F004 2
F005 ME
F006 Animals were dosed via gastric tube to the test substance diluted in
*    water.
F007 Animals were dosed via gastric tube to the test substance diluted in
*    water.
F020 750
EOR
F002 7
F010 5.1.1
F004 2
F005 RE
F006 Smyth H.F., Jr., Seaton, J. and Fischer, L., J. Ind. Hyg. Toxicol.
*    25:259-268 (1941).
F007 Smyth H.F., Jr., Seaton, J. and Fischer, L., J. Ind. Hyg. Toxicol.
*    25:259-268 (1941).
F008 HEDSET
F009 03-12-1993
F020 502
EOR
F002 7
F010 5.1.1
F004 2
F005 RL
F006 Study pre-dates standarized methods and GLP. Test conditions not fully
*    described.
F007 Study pre-dates standarized methods and GLP. Test conditions not fully
*    described.
F020 749
EOR
F002 7
F010 5.1.1
F004 2
F005 RM
F006 The results of this study are supported by other reported oral LD50
*    values for the rat ranging from 4000 to 9000 mg/kg bw (BUA Report 148,
*    Triisopropanolamine, German Chemical Society Advisory Committee on
*    Existing Chemicals of Environmenta
F007 The results of this study are supported by other reported oral LD50
*    values for the rat ranging from 4000 to 9000 mg/kg bw (BUA Report 148,
*    Triisopropanolamine, German Chemical Society Advisory Committee on
*    Existing Chemicals of Environmental Relevance, December, 1993).
F020 753
EOR
F002 7
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F010 5.1.1
F004 2
F005 RS
F006 The maximum dose having no effect was 140 mg/kg bw.
F007 The maximum dose having no effect was 140 mg/kg bw.
F020 751
EOR
F002 7
F010 5.1.2
F004 1
F005 RE
F006 Union Carbide, Data Sheet Isopropanolamines, (1968)
F007 Union Carbide, Data Sheet Isopropanolamines, (1968)
F008 HEDSET
F009 03-12-1993
F020 523
EOR
F002 7
F010 5.1.2
F004 1
F005 RM
F006 No mortality after 8 hours exposure to a saturated
**   atmosphere
F007 No mortality after 8 hours exposure to a saturated
**   atmosphere
F008 HEDSET
F009 03-12-1993
F020 524
EOR
F002 7
F010 5.1.2
F004 1
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 531
EOR
F002 7
F010 5.1.2
F004 2
F005 RE
F006 BASF AG; Department of Toxicology; unpublished results
**   (XVI/65), 17.05.66
F007 BASF AG; Department of Toxicology; unpublished results
**   (XVI/65), 17.05.66
F008 HEDSET
F009 03-12-1993
F020 525
EOR
F002 7
F010 5.1.2
F004 2
F005 RM
F006 No mortality after 8 hours exposure to an atmosphere
**   enriched or saturated at 20 degrees centigrade.
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F007 No mortality after 8 hours exposure to an atmosphere
** enriched or saturated at 20 degrees centigrade.
F008 HEDSET
F009 03-12-1993
F020 526
EOR
F002 7
F010 5.1.2
F004 2
F005 SO
F006 BASF AG Ludwigshafen
F007 BASF AG Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 532
EOR
F002 7
F010 5.1.2
F004 3
F005 RE
F006 Burkackaja E.N. et al.: Gig. Tr. Prof. Zabol. 7, 46-48
** (1986). German Translation
F007 Burkackaja E.N. et al.: Gig. Tr. Prof. Zabol. 7, 46-48
** (1986). German Translation
F008 HEDSET
F009 03-12-1993
F020 527
EOR
F002 7
F010 5.1.2
F004 3
F005 RM
F006 caused slight pathological changes
F007 caused slight pathological changes
F008 HEDSET
F009 03-12-1993
F020 528
EOR
F002 7
F010 5.1.2
F004 3
F005 SO
F006 BASF AG Ludwigshafen
F007 BASF AG Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 533
EOR
F002 7
F010 5.1.2
F004 4
F005 RE
F006 Union Carbide Data Sheet Isopropanolamines, (1977).
** cited in: BIBRA Toxicity Profile "Triisopropanolamine",
** (1990)
F007 Union Carbide Data Sheet Isopropanolamines, (1977).
** cited in: BIBRA Toxicity Profile "Triisopropanolamine",

```
**    (1990)
F008 HEDSET
F009 03-12-1993
F020 529
EOR
F002 7
F010 5.1.2
F004 4
F005 RM
F006 Mortality after 2 hours exposure to vapours generated
**    at 170 degrees centigrade (6 of 6 rats)
F007 Mortality after 2 hours exposure to vapours generated
**    at 170 degrees centigrade (6 of 6 rats)
F008 HEDSET
F009 03-12-1993
F020 530
EOR
F002 7
F010 5.1.2
F004 4
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 534
EOR
F002 7
F010 5.1.3
F004 1
F005 RE
F006 Union Carbide, Data Sheet Isopropanolamines, (1968)
F007 Union Carbide, Data Sheet Isopropanolamines, (1968)
F008 HEDSET
F009 03-12-1993
F020 535
EOR
F002 7
F010 5.1.3
F004 1
F005 RM
F006 skin penetration test, killed 1/4
F007 skin penetration test, killed 1/4
F008 HEDSET
F009 03-12-1993
F020 536
EOR
F002 7
F010 5.1.3
F004 1
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 541
EOR
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F002 7
F010 5.1.3
F004 2
F005 RE
F006 Dow Chemicals USA, unpublished report by Veenstra G.E. and
** Henck J.W., (24.07.80)
F007 Dow Chemicals USA, unpublished report by Veenstra G.E. and
** Henck J.W., (24.07.80)
F008 HEDSET
F009 06-12-1993
F020 537
EOR
F002 7
F010 5.1.3
F004 2
F005 RM
F006 The dermal application of 5000 mg/kg as 85 % aqueous
** formulation did not cause toxic symptoms or mortalities in 2
** animals.
F007 The dermal application of 5000 mg/kg as 85 % aqueous
** formulation did not cause toxic symptoms or mortalities in 2
** animals.
F008 HEDSET
F009 06-12-1993
F020 538
EOR
F002 7
F010 5.1.3
F004 2
F005 SO
F006 BASF AG Ludwigshafen
F007 BASF AG Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 542
EOR
F002 7
F010 5.1.3
F004 3
F005 RE
F006 Burkackaja E.N. et al.: Gig. Tr. Prof. Zabol. 7, 46-48
** (1986). German Translation
F007 Burkackaja E.N. et al.: Gig. Tr. Prof. Zabol. 7, 46-48
** (1986). German Translation
F008 HEDSET
F009 03-12-1993
F020 539
EOR
F002 7
F010 5.1.3
F004 3
F005 RM
F006 percutaneous resorption, rat tail
F007 percutaneous resorption, rat tail
F008 HEDSET
F009 03-12-1993
F020 540

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EOR
F002 7
F010 5.1.3
F004 3
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 543
EOR
F002 7
F010 5.1.4
F004 1
F005 RE
F006 BASF AG; Department of Toxicology; unpublished results
**   (XVI/65), 17.05.66
F007 BASF AG; Department of Toxicology; unpublished results
**   (XVI/65), 17.05.66
F008 HEDSET
F009 03-12-1993
F020 544
EOR
F002 7
F010 5.1.4
F004 1
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 545
EOR
F002 7
F010 5.11
F004 1
F005 RE
F006 Toropkow W.W: Gigiena i. Sanitaryia 3, 79-81 (1980),
**   translated to german
F007 Toropkow W.W: Gigiena i. Sanitaryia 3, 79-81 (1980),
**   translated to german
F008 HEDSET
F009 05-12-1993
F020 546
EOR
F002 7
F010 5.11
F004 1
F005 RM
F006 Sensory threshold is said to be 8.45 mg/l up to 12.7 mg/l.
**   Further information about biochemical effects cannot be
**   estimated
F007 Sensory threshold is said to be 8.45 mg/l up to 12.7 mg/l.
**   Further information about biochemical effects cannot be
**   estimated
F008 HEDSET
F009 05-12-1993
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F020 547
EOR
F002 7
F010 5.11
F004 1
F005 SO
F006 BASF AG Ludwigshafen
F007 BASF AG Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 567
EOR
F002 7
F010 5.11
F004 1
F005 TS
F006 Triisopropanolamine
F007 Triisopropanolamine
F008 HEDSET
F009 05-12-1993
F020 548
EOR
F002 7
F010 5.11
F004 2
F005 RE
F006 Hill Top Research: unpublished data 76-551-70, 10.08.1976
F007 Hill Top Research: unpublished data 76-551-70, 10.08.1976
F008 HEDSET
F009 05-12-1993
F020 549
EOR
F002 7
F010 5.11
F004 2
F005 RE
F006 Research Testing Lab. Inc.: Submission of unpubl. data by
** CTFA (1976).
** cited in: J. Am. Coll. Toxicol. 6, 53-76 (1987)
F007 Research Testing Lab. Inc.: Submission of unpubl. data by
** CTFA (1976).
** cited in: J. Am. Coll. Toxicol. 6, 53-76 (1987)
F008 HEDSET
F009 05-12-1993
F020 550
EOR
F002 7
F010 5.11
F004 2
F005 RM
F006 Irritating properties of certain lotions containing TIPO in
** humans.
F007 Irritating properties of certain lotions containing TIPO in
** humans.
F008 HEDSET
F009 05-12-1993
F020 551

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EOR
F002 7
F010 5.11
F004 2
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 568
EOR
F002 7
F010 5.11
F004 2
F005 TS
F006 Triisopropanolamine in lotions
F007 Triisopropanolamine in lotions
F008 HEDSET
F009 05-12-1993
F020 552
EOR
F002 7
F010 5.11
F004 4
F005 RE
F006 Ullmanns Enzyklopaedie der technischen Chemie, Weinheim
**   (1980)
F007 Ullmanns Enzyklopaedie der technischen Chemie, Weinheim
**   (1980)
F008 HEDSET
F009 05-12-1993
F020 553
EOR
F002 7
F010 5.11
F004 4
F005 RM
F006 Summary of toxic effects, gives result for dermal LD50
**   (about 10.000 mg/kg) which is quoted from RTECS. Source of
**   RTECS is Union Carbide Data Sheet " Isopropanolamines"(1968)
F007 Summary of toxic effects, gives result for dermal LD50
**   (about 10.000 mg/kg) which is quoted from RTECS. Source of
**   RTECS is Union Carbide Data Sheet " Isopropanolamines"(1968)
F008 HEDSET
F009 05-12-1993
F020 554
EOR
F002 7
F010 5.11
F004 4
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 569
EOR
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F002 7
F010 5.11
F004 4
F005 TS
F006 Triisopropanolamine
F007 Triisopropanolamine
F008 HEDSET
F009 05-12-1993
F020 555
EOR
F002 7
F010 5.11
F004 5
F005 RE
F006 Stillmeadow Inc.: Submission of unpublished data by CTFA
** (1976).
** cited in: J. Am. Coll. Toxicol. 6, 53-76 (1987)
F007 Stillmeadow Inc.: Submission of unpublished data by CTFA
** (1976).
** cited in: J. Am. Coll. Toxicol. 6, 53-76 (1987)
F008 HEDSET
F009 05-12-1993
F020 556
EOR
F002 7
F010 5.11
F004 5
F005 RM
F006 Tests for phototoxicity, irritancy and sensitizing
** properties of a lotion containing 1.1% Triisopropanolamine
F007 Tests for phototoxicity, irritancy and sensitizing
** properties of a lotion containing 1.1% Triisopropanolamine
F008 HEDSET
F009 05-12-1993
F020 557
EOR
F002 7
F010 5.11
F004 5
F005 SO
F006 BASF AG Ludwigshafen
F007 BASF AG Ludwigshafen.
F008 IUC4
F009 02-10-2003
F020 570
EOR
F002 7
F010 5.11
F004 5
F005 TS
F006 Triisopropanolamine in lotion
F007 Triisopropanolamine in lotion
F008 HEDSET
F009 05-12-1993
F020 558
EOR
F002 7

F010 5.11
F004 6
F005 RE
F006 Beard R.R and Noe J.T.: p. 3135-3173 in: Patty's Ind. Hyg.
** and Toxicol. (1981)
F007 Beard R.R and Noe J.T.: p. 3135-3173 in: Patty's Ind. Hyg.
** and Toxicol. (1981)
F008 HEDSET
F009 06-12-1993
F020 559
EOR
F002 7
F010 5.11
F004 6
F005 RE
F006 BIBRA Toxicity Profile "Triisopropanolamine", (1990)
F007 BIBRA Toxicity Profile "Triisopropanolamine", (1990)
F008 HEDSET
F009 06-12-1993
F020 560
EOR
F002 7
F010 5.11
F004 6
F005 RE
F006 BIBRA Toxicity Profile Triisopropanolamine, (1987)
F007 BIBRA Toxicity Profile Triisopropanolamine, (1987)
F008 HEDSET
F009 06-12-1993
F020 561
EOR
F002 7
F010 5.11
F004 6
F005 RE
F006 J. Am. Coll. Toxicol. 6, 53-76 (1987)
F007 J. Am. Coll. Toxicol. 6, 53-76 (1987)
F008 HEDSET
F009 06-12-1993
F020 562
EOR
F002 7
F010 5.11
F004 6
F005 RE
F006 RTECS, Update 8909
F007 RTECS, Update 8909
F008 HEDSET
F009 06-12-1993
F020 563
EOR
F002 7
F010 5.11
F004 6
F005 RE
F006 Sax I.: Dangerous Properties of Industrial Materials, New
** York (1979)

F007 Sax I.: Dangerous Properties of Industrial Materials, New
** York (1979)
F008 HEDSET
F009 06-12-1993
F020 564
EOR
F002 7
F010 5.11
F004 6
F005 RE
F006 Sutton W.L.: Patty's Ind. Hyg. and Toxicol., 2037-2043
** (1963)
F007 Sutton W.L.: Patty's Ind. Hyg. and Toxicol., 2037-2043
** (1963)
F008 HEDSET
F009 06-12-1993
F020 565
EOR
F002 7
F010 5.11
F004 6
F005 SO
F006 BASF AG Ludwigshafen
F007 BASF AG Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 571
EOR
F002 7
F010 5.11
F004 6
F005 TS
F006 Triisopropanolamine
F007 Triisopropanolamine
F008 HEDSET
F009 06-12-1993
F020 566
EOR
F002 7
F010 5.2.1
F004 1
F005 RE
F006 Union Carbide, Data Sheet Isopropanolamines (1968)
F007 Union Carbide, Data Sheet Isopropanolamines (1968)
F008 HEDSET
F009 05-12-1993
F020 572
EOR
F002 7
F010 5.2.1
F004 1
F005 RM
F006 24 hours, uncovered skin; result is characterized as slight
F007 24 hours, uncovered skin; result is characterized as slight
F008 HEDSET
F009 05-12-1993
F020 573

EOR
F002 7
F010 5.2.1
F004 1
F005 SO
F006 BASF AG Ludwigshafen
F007 BASF AG Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 580
EOR
F002 7
F010 5.2.1
F004 2
F005 RE
F006 Stillmeadow Inc.: Submission of unpublished data by CTFA
** (1976).
** cited in: J. Am. Coll. Toxicol. 6, 53-76 (1987)
F007 Stillmeadow Inc.: Submission of unpublished data by CTFA
** (1976).
** cited in: J. Am. Coll. Toxicol. 6, 53-76 (1987)
F008 HEDSET
F009 05-12-1993
F020 574
EOR
F002 7
F010 5.2.1
F004 2
F005 RM
F006 Original source not available, tested substance: lotion
** containing 1.1% TIPA
F007 Original source not available, tested substance: lotion
** containing 1.1% TIPA
F008 HEDSET
F009 05-12-1993
F020 575
EOR
F002 7
F010 5.2.1
F004 2
F005 SO
F006 BASF AG Ludwigshafen
F007 BASF AG Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 581
EOR
F002 7
F010 5.2.1
F004 3
F005 RE
F006 BASF AG; Department of Toxicology; unpublished results
** (XVI/65), 17.05.66
F007 BASF AG; Department of Toxicology; unpublished results
** (XVI/65), 17.05.66
F008 HEDSET
F009 05-12-1993

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F020 576
EOR
F002 7
F010 5.2.1
F004 3
F005 RM
F006 Skin irritation after 20 hours of exposure.
F007 Skin irritation after 20 hours of exposure.
F008 HEDSET
F009 05-12-1993
F020 577
EOR
F002 7
F010 5.2.1
F004 3
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 582
EOR
F002 7
F010 5.2.1
F004 4
F005 RE
F006 Dow Chemicals USA, unpublished report by Veenstra G.E. and
**   Henck J.W., (24.07.80)
F007 Dow Chemicals USA, unpublished report by Veenstra G.E. and
**   Henck J.W., (24.07.80)
F008 HEDSET
F009 06-12-1993
F020 578
EOR
F002 7
F010 5.2.1
F004 4
F005 RM
F006 85% solution; uncovered skin; irritating effects were seen
**   when skin was covered.
**   In a rangefinding study with one rabbit 0.5 ml 85 % aqueous
**   compound was applied to the intact (9 days) and abraded
**   skin(3 days). No time of daily exposure du
F007 85% solution; uncovered skin; irritating effects were seen
**   when skin was covered.
**   In a rangefinding study with one rabbit 0.5 ml 85 % aqueous
**   compound was applied to the intact (9 days) and abraded
**   skin(3 days). No time of daily exposure duration is given.
**   Erythema and superficial necrosis were seen 1 day after
**   single treatment of intact skin. Findings were more
**   pronounced after 9 day treatment of intact skin when
**   scab/scar formation was observed or after 3 day treatment
**   ofabraded skin.
F008 HEDSET
F009 06-12-1993
F020 579
EOR
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F002 7
F010 5.2.1
F004 4
F005 SO
F006 BASF AG Ludwigshafen
F007 BASF AG Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 583
EOR
F002 7
F010 5.2.2
F004 1
F005 RE
F006 Union Carbide, Data Sheet Isopropanolamines (1968)
F007 Union Carbide, Data Sheet Isopropanolamines (1968)
F008 HEDSET
F009 05-12-1993
F020 584
EOR
F002 7
F010 5.2.2
F004 1
F005 RM
F006 result is characterized as moderate
F007 result is characterized as moderate
F008 HEDSET
F009 05-12-1993
F020 585
EOR
F002 7
F010 5.2.2
F004 1
F005 SO
F006 BASF AG Ludwigshafen
F007 BASF AG Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 593
EOR
F002 7
F010 5.2.2
F004 2
F005 RE
F006 Toropkow W.W.: Gig. Tr. Prof. Zabol. 2, 48-50 (1980),
** German translation
F007 Toropkow W.W.: Gig. Tr. Prof. Zabol. 2, 48-50 (1980),
** German translation
F008 HEDSET
F009 05-12-1993
F020 586
EOR
F002 7
F010 5.2.2
F004 2
F005 RM
F006 50 mg of the testsubstance were instilled into the

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**   conjunctival sac of the left eye. Marked signs of irritaion
**   were completely reversible 21 days after exposure.
F007 50 mg of the testsubstance were instilled into the
**   conjunctival sac of the left eye. Marked signs of irritaion
**   were completely reversible 21 days after exposure.
F008 HEDSET
F009 05-12-1993
F020 587
EOR
F002 7
F010 5.2.2
F004 2
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 594
EOR
F002 7
F010 5.2.2
F004 4
F005 RE
F006 BASF AG; Department of Toxicology; unpublished results
**   (XVI/65), 17.05.66
F007 BASF AG; Department of Toxicology; unpublished results
**   (XVI/65), 17.05.66
F008 HEDSET
F009 05-12-1993
F020 588
EOR
F002 7
F010 5.2.2
F004 4
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 595
EOR
F002 7
F010 5.2.2
F004 5
F005 RE
F006 Carpenter C.P. and Smyth H.F.: Am. J. Ophtalmol. 29,
**   1363-72(1946)
F007 Carpenter C.P. and Smyth H.F.: Am. J. Ophtalmol. 29,
**   1363-72(1946)
F008 HEDSET
F009 05-12-1993
F020 589
EOR
F002 7
F010 5.2.2
F004 5
F005 RM
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F006 Grade 6/10
F007 Grade 6/10
F008 HEDSET
F009 05-12-1993
F020 590
EOR
F002 7
F010 5.2.2
F004 5
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 596
EOR
F002 7
F010 5.2.2
F004 6
F005 RE
F006 Dow Chemicals USA, unpublished report by Veenstra G.E. and
**   Henck J.W., (24.07.80)
F007 Dow Chemicals USA, unpublished report by Veenstra G.E. and
**   Henck J.W., (24.07.80)
F008 HEDSET
F009 06-12-1993
F020 591
EOR
F002 7
F010 5.2.2
F004 6
F005 RM
F006 Slight discomfort, severe conjunctival redness and
**   swelling,discharge, moderate reddening of the iris and
**   moderate corneal injury were observed. All signs of
**   irritation were absent by 21 days post-exposure.
F007 Slight discomfort, severe conjunctival redness and
**   swelling,discharge, moderate reddening of the iris and
**   moderate corneal injury were observed. All signs of
**   irritation were absent by 21 days post-exposure.
F008 HEDSET
F009 06-12-1993
F020 592
EOR
F002 7
F010 5.2.2
F004 6
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 597
EOR
F002 7
F010 5.3
F004 1
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F005 RE
F006 IVY Research Lab. Inc.: unpublished data, Ivy Prot. Nr.
**   3353, 15.09.1976
F007 IVY Research Lab. Inc.: unpublished data, Ivy Prot. Nr.
**   3353, 15.09.1976
F008 HEDSET
F009 05-12-1993
F020 598
EOR
F002 7
F010 5.3
F004 1
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 603
EOR
F002 7
F010 5.3
F004 2
F005 RE
F006 Burkackaja E.N. et al.: Gig. Tr. Prof. Zabol. 7, 46-48
**   (1986), (German Translation)
F007 Burkackaja E.N. et al.: Gig. Tr. Prof. Zabol. 7, 46-48
**   (1986), (German Translation)
F008 HEDSET
F009 05-12-1993
F020 599
EOR
F002 7
F010 5.3
F004 2
F005 RM
F006 original source in russian; results cannot be estimated
**   because information about conduction of test is lacking
F007 original source in russian; results cannot be estimated
**   because information about conduction of test is lacking
F008 HEDSET
F009 05-12-1993
F020 600
EOR
F002 7
F010 5.3
F004 2
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 604
EOR
F002 7
F010 5.3
F004 3
F005 RE
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F006 Research Testing Laboratories, Inc., unpublished results,
** 01.04.1975
F007 Research Testing Laboratories, Inc., unpublished results,
** 01.04.1975
F008 HEDSET
F009 06-12-1993
F020 601
EOR
F002 7
F010 5.3
F004 3
F005 RM
F006 The patch test readings were interpreted according to the
** International Contact Dermatitis Research Group:
** Terminologyof Contact Dermatitis, Acta Dermatovener
** (Stockholm) 50, 287-292 (1970):
** Open patch-tests were all negative (98 subjects)
F007 The patch test readings were interpreted according to the
** International Contact Dermatitis Research Group:
** Terminologyof Contact Dermatitis, Acta Dermatovener
** (Stockholm) 50, 287-292 (1970):
** Open patch-tests were all negative (98 subjects)
** Closed patch-tests: 93 subjects negative, 4 weak reactions,
** 1 strong reaction
F008 HEDSET
F009 06-12-1993
F020 602
EOR
F002 7
F010 5.3
F004 3
F005 SO
F006 BASF AG Ludwigshafen
F007 BASF AG Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 605
EOR
F002 7
F010 5.4
F004 1
F005 ME
F006 Animals (5 per dose) were exposed to triisopropanolamine in the drinking
* water for 30 days.
F007 Animals (5 per dose) were exposed to triisopropanolamine in the drinking
* water for 30 days.
F020 755
EOR
F002 7
F010 5.4
F004 1
F005 RE
F006 Smyth H.F. and Carpenter C.P., J. Ind. Hyg. Toxicol. 30,
** 63-68 (1948)
F007 Smyth H.F. and Carpenter C.P., J. Ind. Hyg. Toxicol. 30,
** 63-68 (1948)
F008 HEDSET

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F009 05-12-1993
F020 606
EOR
F002 7
F010 5.4
F004 1
F005 RL
F006 Study pre-dates standardized methods and GLP. Test conditions not fully
*    described.
F007 Study pre-dates standardized methods and GLP. Test conditions not fully
*    described.
F020 756
EOR
F002 7
F010 5.4
F004 1
F005 RS
F006 The highest dose level reduced food intake and growth. 260
**   mg/kg still caused micropathological lesions of liver,
**   kidney, spleen or testes (scope of examinations or kind of
**   lesions are not mentioned). No treatment-related deaths
**   occured dur
F007 The highest dose level reduced food intake and growth. 260
**   mg/kg still caused micropathological lesions of liver,
**   kidney, spleen or testes (scope of examinations or kind of
**   lesions are not mentioned). No treatment-related deaths
**   occured during the study.
F008 HEDSET
F009 05-12-1993
F020 607
EOR
F002 7
F010 5.4
F004 6
F005 ME
F006 The 2% dose was reported as equal to 324 mg/day per animal. Based upon
*    the reported average initial and final body weights, this dose was
*    calculated to be approximately equal to 1216 mg/kg bw/day
F007 The 2% dose was reported as equal to 324 mg/day per animal. Based upon
*    the reported average initial and final body weights, this dose was
*    calculated to be approximately equal to 1216 mg/kg bw/day
F020 754
EOR
F002 7
F010 5.4
F004 6
F005 RE
F006 Yamamoto, K., 1991. Endogenously synthesized
*    N-nitrosobis(2-hydroxypropyl)amine and its carcinogenic potential in
*    rats. J. Nara. Med. Ass. 42:134-152
F007 Yamamoto, K., 1991. Endogenously synthesized
*    N-nitrosobis(2-hydroxypropyl)amine and its carcinogenic potential in
*    rats. J. Nara. Med. Ass. 42:134-152
F020 642
EOR
F002 7
F010 5.4
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F004 6
F005 RL
F006 Insufficient documentation
F007 Insufficient documentation
F020 645
EOR
F002 7
F010 5.4
F004 6
F005 RS
F006 This study, designed to examine carcinogenic effects, used a single group
* of 19 rats exposed to 2% triisopropanolamine and 17 controls. None of 19
* exposed rats demonstrated tumors in the nasal cavity, lung, esophagus,
* liver, urinary bladder
F007 This study, designed to examine carcinogenic effects, used a single group
* of 19 rats exposed to 2% triisopropanolamine and 17 controls. None of 19
* exposed rats demonstrated tumors in the nasal cavity, lung, esophagus,
* liver, urinary bladder, thryroid, kidney, stomach, pancreas, or mammary
* gland. Pheochromocytoma (adrenal gland) and Leydig cell tumors (testis)
* were observed but at similar or lower percentages than observed in the
* controls. There was a 5% incidence (1 animal of 19) of pituitary gland
* adenomas in the treated rats versus none in the controls and an 11%
* incidence (2 animals of 19) of "other" tumors versus 18% in the controls;
* neither of these effects was statistically significant.
F020 643
EOR
F002 7
F010 5.4
F004 6
F005 TC
F006 Test conditions not described in English
F007 Test conditions not described in English
F020 644
EOR
F002 7
F010 5.5
F004 1
F005 RE
F006 Zeiger E. et al.: Environ. Mutagen. 9, Suppl.9, 1-18 (1987)
F007 Zeiger E. et al.: Environ. Mutagen. 9, Suppl.9, 1-18 (1987)
F008 HEDSET
F009 05-12-1993
F020 621
EOR
F002 7
F010 5.5
F004 1
F005 SO
F006 BASF AG Ludwigshafen
F007 BASF AG Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 624
EOR
F002 7
F010 5.6
F004 1

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F005 RE
F006 BASF AG, dept. of toxicology, unpublished data
**   (26M0013/9[C196), 02/23/1995
F007 BASF AG, dept. of toxicology, unpublished data
**   (26M0013/9[C196), 02/23/1995
F008 HEDSET
F020 626
EOR
F002 7
F010 5.6
F004 1
F005 RM
F006 According to the results of the present study, the single
**   oral administration of Triisopropanolamin did not lead to
**   any increase in the number of polychromatic erythrocytes
**   containing either small or large micronuclei.
**   No inhibition of ery
F007 According to the results of the present study, the single
**   oral administration of Triisopropanolamin did not lead to
**   any increase in the number of polychromatic erythrocytes
**   containing either small or large micronuclei.
**   No inhibition of erythropoiesis determined from the ratio
**   of polychromatic to normochromatic erythrocytes was
**   detected.
**   Triisopropanolamin does not have any chromosome-damaging
**   effect, and there were no indications of any impairment of
**   chromosome distribution in the course of mitosis.
F008 HEDSET
F020 627
EOR
F002 7
F010 5.6
F004 1
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 629
EOR
F002 7
F010 5.6
F004 1
F005 TS
F006 degree of purity: 92.0%
F007 degree of purity: 92.0%
F008 HEDSET
F020 628
EOR
F002 7
F010 5.8.1
F004 1
F005 RE
F006 Toropkov V.V.: Tr. Leningr. San.-gigien Med.In-ta 130, 29
**   (1980).
**   cited in: BIBRA Toxicity Profile "Triisopropanolamine"
**   (1990)
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F007 Toropkov V.V.: Tr. Leningr. San.-gigien Med.In-ta 130, 29
** (1980).
** cited in: BIBRA Toxicity Profile "Triisopropanolamine"
** (1990)
F008 HEDSET
F009 05-12-1993
F020 630
EOR
F002 7
F010 5.8.1
F004 1
F005 RS
F006 no malformations, no adverse effects on reproductive
** parameters; original source not available
F007 no malformations, no adverse effects on reproductive
** parameters; original source not available
F008 HEDSET
F009 05-12-1993
F020 631
EOR
F002 7
F010 5.8.1
F004 1
F005 SO
F006 BASF AG Ludwigshafen
F007 BASF AG Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 632
EOR
F002 7
F010 5.8.2
F004 1
F005 RE
F006 BASF AG, dept. of toxicology, unpublished data
** (30R0013/93029), 07/14/1995
F007 BASF AG, dept. of toxicology, unpublished data
** (30R0013/93029), 07/14/1995
F008 HEDSET
F020 633
EOR
F002 7
F010 5.8.2
F004 1
F005 RS
F006 The test substance was administered as an aqueous solution
** to 23-25 pregnant rats/group.
** In the 1000 mg/kg dose group statistically significantly
** decreased food consumption at the beginning of the treatment
** period and significantly reduced
F007 The test substance was administered as an aqueous solution
** to 23-25 pregnant rats/group.
** In the 1000 mg/kg dose group statistically significantly
** decreased food consumption at the beginning of the treatment
** period and significantly reduced body weight gain were
** observed. There were no effects on gestational parameters or
** fetuses.

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**    No substance-related effects on dams or fetuses were found
**    in the other groups.
F008 HEDSET
F020 634
EOR
F002 7
F010 5.8.2
F004 1
F005 SO
F006 BASF AG  Ludwigshafen
F007 BASF AG  Ludwigshafen
F008 IUC4
F009 02-10-2003
F020 636
EOR
F002 7
F010 5.8.2
F004 1
F005 TS
F006 Triisopropanolamine, purity 92 %
F007 Triisopropanolamine, purity 92 %
F008 HEDSET
F020 635
EOR
F002 7
F010 5.8.3
F004 1
F005 ME
F006 The 2% dose was reported as equal to 324 mg/day per animal. Based upon
*    the reported average initial and final body weights, this dose was
*    calculated to be approximately equal to 1216 mg/kg bw/day.
F007 The 2% dose was reported as equal to 324 mg/day per animal. Based upon
*    the reported average initial and final body weights, this dose was
*    calculated to be approximately equal to 1216 mg/kg bw/day.
F020 757
EOR
F002 7
F010 5.8.3
F004 1
F005 RE
F006 Yamamoto, K., 1991. Endogenously synthesized
*    N-nitrosobis(2-hydroxypropyl)amine and its carcinogenic potential in
*    rats. J. Nara. Med. Ass. 42:134-152
F007 Yamamoto, K., 1991. Endogenously synthesized
*    N-nitrosobis(2-hydroxypropyl)amine and its carcinogenic potential in
*    rats. J. Nara. Med. Ass. 42:134-152
F020 646
EOR
F002 7
F010 5.8.3
F004 1
F005 RL
F006 Insufficient documentation
F007 Insufficient documentation
F020 647
EOR
F002 7
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F010 5.8.3
F004 1
F005 RS
F006 This study, designed to examine carcinogenic effects, used a single group
* of 19 rats exposed to 2% triisopropanolamine and 17 controls. None of 19
* exposed rats demonstrated a significant increase in tumors of
* reproductive organs relative to
F007 This study, designed to examine carcinogenic effects, used a single group
* of 19 rats exposed to 2% triisopropanolamine and 17 controls. None of 19
* exposed rats demonstrated a significant increase in tumors of
* reproductive organs relative to the controls. This included the testis,
* mammary gland and pituitary gland.
F020 688
EOR
F002 7
F010 5.8.3
F004 1
F005 TC
F006 Test conditions not described in English
F007 Test conditions not described in English
F020 648
EOB
C
X