5. TOXICITY

DATE: 26-NOV-2003

SUBSTANCE ID: 88-73-3

Strain: Wistar Sex: female

Vehicle: other: polyethylene glycol 400

Value: ca. 1320 mg/kg bw

Method: other: 10 or 20 rats/dose, 3 doses, subst.(solved in

polyethylene glycol 400) appl. on the shaved back for 24 hours, covered by alu and a plaster, then rinsed with water

and soap, post exposure observ.-time: 14 d

Year: 1976

GLP: no

Test substance: as prescribed by 1.1 - 1.4

Remark: dosis conc. result signs of intoxication time of death

mg/kg % m/s/n start end

750 50 24 h 6 d 0/10/10 1000 5/20/20 2 - 3 d50 18 h 14 d 1500 75 6/10/10 18 h 10 d 2 - 6 d

m: number of rats which died;
n: number of animals in test

s: number of animals with signs of intoxication: reduced general condition, difficulties in breathing, cyanotic appearance, some animals showed lacrimation

Reliability: (2) valid with restrictions

no pathologic examination performed, individual animal data

and information on GLP are missing

Flag: Critical study for SIDS endpoint

21-MAR-2003 (6)

Type: LD50
Species: rat
Sex: female

No. of Animals: 6

Vehicle: other: diluted in sesame oil to give a concentration of 40 %

Value: = 1796 mg/kg bw

Method: other: 6 rats/dose, single application to the clipped intact

skin, covered by alu and a plaster, exposure time: 24 h, then

rinsing, postexposure observation time: 14 d

Year: 1975 GLP: no

Test substance: other TS: no data on purity

Remark: doses and mortality:

500 mg/kg: 0/6; 1000 mg/kg: 1/6; 1600 mg/kg: 3/6;

2000 mg/kg: 3/6

no signs of toxicity, necropsy of the survivors: no

pathological findings

Reliability: (2) valid with restrictions

no data on purity and information on GLP is missing

21-MAR-2003 (42)

Type: Species: LD50 rabbit

Value: = 450 mg/kg bw

Method: other: 5 rabbits/dose, trunks were clipped free of hair, 3

doses (warm to melting point), exposure time 24 h (rabbits immobilized during exposure), then rinsing and wiping dry,

observation time: 14 $\,\mathrm{d}$

Year: 1975

DATE: 26-NOV-2003

SUBSTANCE ID: 88-73-3

```
GT.P:
                   nο
                   other TS: no data on purity
Test substance:
Remark:
                   dose / mortality / individual reactions
                   330 mg/kg/ 20 % / slight discoloration of the skin and eyes;
                                     normal < 48 hrs
                   560 mg/kg/ 80 % / death 48 to 96 hours preceded by lethargy,
                                      loss of motor coordination, sometimes coma
                   750 mg/kg/ 80 % / death 2 to 5 days, other reaction similar
                   general reaction:
                   manifestation of methaemoglobinaemia symptoms evident in
                   < 20 minutes
Reliability:
                   (2) valid with restrictions
                   no data on purity, no pathologic examination, information on
                   GLP is missing
16-JUN-2003
                                                                              (104)
Type:
                  LD50
                  rabbit
Species:
Sex:
                   male/female
No. of Animals:
Vehicle:
                  other: undissolved
Value:
                   = 400 \text{ mg/kg bw}
Method:
                   other: 2 rabbits/sex/dose, 5 doses, single dermal application
                   (intact skin), undiluted (warmed to make suitable for dosing),
                  no further information, exposure time: 24 hrs, post
                   exp.observation time: 14 d
  Year:
                   1983
   GLP:
                   yes
Test substance:
                   other TS: purity: no data
                   Dose and mortality: 251 mg/kg: Males: 0/2; Females: 0/2
Remark:
                                       316 mg/kg:
                                                          0/2
                                                                         1/2
                                       398 mg/kg:
                                                          0/2
                                                                         2/2
                                       501 mg/kg:
                                                          2/2
                                                                         1/2
                                       631 mg/kg:
                                                          2/2
                                                                         2/2
                   observations: toxic signs: lethargy (lasting up to 3 days);
                  increasing weakness; collapse; death
                   Gross necropsv:
                   decedents: haemorrhagic areas of the lungs;
                   liver, kidney, spleen discoloration; enlarged gall bladder,
                   gastrointestinal inflammation
                  survivors(14 d): viscera appeared normal
                  LD50 (male):
                                 445 mg/kg bw
                  LD50 (female): 355 mg/kg bw
Reliability:
                   (2) valid with restrictions
                  no data on purity, no individual pathologic data
Flag:
                  Critical study for SIDS endpoint
21-MAR-2003
                                                                         (69) (112)
Type:
                   LD50
                  rabbit
Species:
Sex:
                  male/female
No. of Animals:
                   1
Vehicle:
                   other: none
                  > 79.4 mg/kg bw
Value:
                   other:1 rabbit/dose, 6 doses, single application of undiluted,
Method:
                  warmed substance, exposure time. 24 hrs, postexposure
                   observation time: 14 d ( no further information)
                  1975
  Year:
   GLP:
                  no
```

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1-CHLORO-2-NITROBENZENE

DATE: 26-NOV-2003 SUBSTANCE ID: 88-73-3

Test substance: other TS: no data on purity

Remark:

dose, sex, mortality, time to death:

-; 50.0 mg/kg, female, 0/1, -; 31.6 mg/kg, male, 0/1, -; 126.0 mg/kg, female, 1/1, 2 d; 79.4 mg/kg, male, 0/1, 200.0 mg7kg, male, 1/1, 1 d; 398.0 mg/kg, female, 1/1, 1 d

signs of intoxication: slight lethargy (1-2 d in survivors),

increasing weakness, collapse, death

gross autopsy: decedents: haemorrhagic areas of the lungs,

slight liver discoloration, enlarged gall bladder,

gastrointestinal inflammation; survivors: viscera appeared normal

Reliability:

valid with restrictions

no data on purity, information on GLP is missing, only 1

animal/dose, no individual pathologic data

16-JUN-2003 (113)

Type: Species: LDLo rabbit

Sex:

male/female

No. of Animals:

1

Vehicle: Value:

other: none 316 mg/kg bw

Method:

other: 1 rat /dose, single application of undiluted substance,

exposure time: 24 hrs, post exposure observation time: 14 d

Year:

1975 no

GLP: Test substance:

other TS: orthonitrobenzene residue

Remark:

dose, sex, mortality, time to death:

126 mg/kg, male, 0/1, -; 200 mg/kg, female, 0/1, -; 316 mg/kg, male, 1/1, 2 days; 794 mg/kg, 1/1, 3 days signs of intoxication: reduced appetite and activity (2-4 days in survivors), increasing weakness, collapse, death gross autopsy: decedents: haemorrhagic areas of the lungs, mottled liver, slight enlarged gall bladder, blackened

spleen, gastrointestinal inflammation survivors: viscera appeared normal

Reliability:

(4) not assignable

o-chloronitrobenzene residue used, no information of

o-chloronitrobenzene itself

21-MAR-2003

(111)

5.1.4 Acute Toxicity, other Routes

5.2 Corrosiveness and Irritation

5.2.1 Skin Irritation

Species:

rabbit

Concentration: Exposure Time:

500 other: mg 24 hour(s)

No. of Animals:

2

Result:

not irritating

Method:

1-CHLORO-2-NITROBENZENE

5. TOXICITY DATE: 26-NOV-2003 SUBSTANCE ID: 88-73-3

other: ear, dose: 500 mg/animal, undissolved TS, covered by

cellulose pads and plaster, a rolled gauze pad was put on it,

all together was bandaged, exposure time: 24 h,

semi-occlusive, observation time 7 d

Year: 1976

GLP: no

Test substance: as prescribed by 1.1 - 1.4

Reliability: (2) valid with restrictions

only a few animals used, no information on GLP

Flag: Critical study for SIDS endpoint

21-MAR-2003 (6)

Species: rabbit Concentration: 10 %

Exposure: Semiocclusive Exposure Time: 24 hour(s)

No. of Animals: 6

Result: not irritating

Method: other: appl. to intact and abraded skin, flank, test substance

diluted in sesame oil, dose: 0.5 ml/animal, observation time: 72 hrs, reading: 24, 48 and 72 hours, evaluated according

Fed.Reg.38, No.187, p.27019, 1973, § 1500.41

Year: 1975 GLP: no

Test substance: other TS: no data on purity

Remark: intakt skin (score 0-4):

24 hrs: 4/6 erythema: score: 1; 0/6 oedema
48 hrs: 0/6 erythema: score: ; 0/6 oedema
72 hrs: 0/6 erythema: score: ; 0/6 oedema

abraded skin:

24 hrs: 4/6 erythema: score: 1; 0/6 oedema 48 hrs: 0/6 erythema: score: ; 0/6 oedema 72 hrs: 0/6 erythema: score: ; 0/6 oed

Reliability: (2) valid with restrictions

sesame oil as vehicle, no data on purity

16-JUN-2003 (41)

Species: rabbit
Concentration: undiluted
Exposure: no data
Exposure Time: 24 hour(s)

No. of Animals: 3

Result: corrosive

Method: other: 0.5 ml undiluted, exposure: 24 hrs

Year: 1974 GLP: no

Test substance: other TS: o-nitrochlorobenzene residue (not the original

substance, no further information on chemical characteristics)

Reliability: (4) not assignable

o-chloronitrobenzene residue used, no information of

o-chloronitrobenzene itself

21-MAR-2003 (111)

Species: rabbit

Concentration: other: undissolved

Exposure: no data

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1-CHLORO-2-NITROBENZENE

DATE: 26-NOV-2003

SUBSTANCE ID: 88-73-3

Exposure Time: 24 hour(s)

No. of Animals:

Result: not irritating

Method: other: 0.5 ml/rabbit, warmed, observation time: 168 hours (no

further information)

Year: 1973 GLP: no

Test substance: other TS: purity: 99.71 %

Remark: time of reading up to 168 hours: no erythema or oedema

Reliability: (2) valid with restrictions

no GLP, no information on exposure

Flag: Critical study for SIDS endpoint

21-MAR-2003 (113)

5.2.2 Eye Irritation

Species: rabbit

Dose: 50 other: mg

No. of Animals: 2

Result: not irritating

Method: other: undissolved test substance, dose: 50

mg/animal, observation period: 7 d

Year: 1976 GLP: no

Test substance: as prescribed by 1.1 - 1.4

Remark: Slight redness (score 1/3) observed in 1/2 animals,

disappeared within 24 hours, the other animal was without

effects

Reliability: (2) valid with restrictions no GLP, only a few animals used

Flag: Critical study for SIDS endpoint

21 -MAR - 2003 (6)

Species: rabbit

Concentration: other: undissolved
Dose: 100 other: mg

Exposure Time: 24 hour(s)
Comment: no data

No. of Animals: 6

Result: slightly irritating

Method: other: according Fed.Reg.38, No.187, 1973: undissolved test

substance, dose: 100 mg/animal, observation time: 24 hrs

Year: 1975 GLP: no

Test substance: other TS: no data on purity

Remark: 1 hr post appl: 4/6 with conjunctival injections, score:

1/0-3; and 2/6 with conjunctival injections, score: 2/0-3; 7 hr post appl: 2/6 with conjunctival injections, score:

1/0-3; 24 hr post appl: no findin

Reliability: (2) valid with restrictions no data on purity, no GLP

Flag: Critical study for SIDS endpoint

16-JUN-2003 (41)

Species: rabbit

1-CHLORO-2-NITROBENZENE

DATE: 26-NOV-2003

SUBSTANCE ID: 88-73-3

Concentration: undiluted
Dose: .1 ml
Exposure Time: 24 hour(s)

No. of Animals: 3

Result: corrosive

Method: other: 0.1 ml, undiluted, 24 hrs exposure

Year: 1974 GLP: no

Test substance: other TS: o-nitrochlorobenzene residue (not the original

substance, no further information on chemical characteristics)

Reliability: (4) not assignable

o-chloronitrobenzene residue used, no information of

o-chloronitrobenzene itself

21-MAR-2003 (111)

Species: rabbit
Concentration: undiluted
Dose: .1 ml
Exposure Time: 24 hour(s)

No. of Animals: 6

Result: not irritating

Method: other: 0.1 ml/rabbit, warmed, observation time: 168 hours

Year: 1973 GLP: no

Test substance: other TS: purity: 99.71 %

Remark: Time of reading:

24 hrs: 6/6 slight erythema, Score 9.6/110 48 hrs: 5/6 slight erythema, Score 2.3/110 72 hrs: 1/6 slight erythema, Score 0.3/110

168 hrs: no findings

Reliability: (2) valid with restrictions

no GLP

21-MAR-2003 (113)

Species: rabbit
Concentration: 10 %
Dose: .1 ml

No. of Animals: 6
Result: slightly

Result: slightly irritating
Method: other: according Fed.Reg.38, No.187, 1973: observation time:

24 hrs

Year: 1975 GLP: no

Test substance: other TS

Remark: 1 hr post appl: 3/6 conjunctival injection, score: 1/0-3; 7

and 24 hrs post appl: no findings

Reliability: (2) valid with restrictions

no data on purity, no GLP

21-MAR-2003 (41)

5.3 Sensitization

Type: no data Species: human

Remark: experience with human exposure: o-chloronitrobenzene

5. TOXICITY

DATE: 26-NOV-2003 SUBSTANCE ID: 88-73-3

has been used for decades, but there have been no indications of an allergenic potential in man

(16)

Type:

other: modified Draize test

Species:

guinea pig

Concentration 1st:

Induction 1 % Challenge 1 %

2nd:

No. of Animals:

Vehicle:

10 other: Aceton

Result:

not sensitizing

Method:

other: 3 drops of a 1 % solution to the clipped area of the skin for 5 d; on the 7th d 3 drops of the 1 % solution to an untreated area of the skin; reading time not mentioned

Year:

1973

GI.P:

no

Test substance:

other TS: no data on purity

Remark:

The study documentation is incomplete and the methology

employed is no longer in use.

Reliability:

(3) invalid

no data on purity, study documentation incomplete, no data

on GLP

16-JUN-2003

(88)

Type:

other: modified Freunds complete adjuvant test

Species:

guinea pig

Concentration 1st:

: Induction 10 % : Challenge 10 %

No. of Animals:

10

Vehicle: Result: other: aceton sensitizing

Method:

other: 3 drops(10% sol.) to the clipped area of the skin;22nd inj.of Freund-adjuvans and TS into the hind paw (0.5 mg/kg bw), 28th d 3 drops(10 % sol.) to an untreated clipped area of

the skin; reading time not mentioned

Year:

1973

GLP: Test substance:

no other TS: no data on purity

Remark:

The allergenic activity of o-chloronitrobenzene is less marked than that of p-chloronitrobenzene; 2,4-dinitro-chlorobenzene provokes even stronger sensitization effects than p-chloronitrobenzene

The study documentation is incomplete and the methology

Reliability:

employed is no longer in use.
(3) invalid

no data on purity, study documentation incomplete, no data

on GLP

16-JUN-2003

(88)

Type:

other: the rats were exposed via inhalation to

o-chloronitrobenzene for 5 months

Species:

rat

Result:

sensitizing

Year: GLP: 1973 no

Test substance:

other TS: no data on purity

Reliability:

(3) invalid

no data on purity, study documentation incomplete, no data

5. TOXICITY DATE: 26-NOV-2003 SUBSTANCE ID: 88-73-3

on GLP

16-JUN-2003 (88)

5.4 Repeated Dose Toxicity

Species: rat Sex: male/female

Strain: other: F344/N Route of administration: inhalation Exposure period: 13 w

Frequency of treatment: 6 h/d, 5 d/w

Post exposure period: no

Doses: 0, 1.1, 2.3, 4.5, 9 or 18 ppm (approx. 0, 7, 14.7,

28.8, 57.6, 115.2 mg/m3)

Control Group: yes

LOAEL: ca. 1.1 ppm

Method: other: see freetext: method

Year: 1993 GLP: yes

Test substance: other TS: purity: 99 %

Method: 10 rats/sex/group, whole body expos.,

clin.chem., hematol., bw., org.weight, compl. histopathol. in all control rats and 18ppm gr. and rats that died, gross

lesions and selec. organs of rats < 18-ppm-groups, add. 10 rats/sex/conc: clin. pathol. at d1, d4, d23

histopathol. evaluations on reproductive organs: see chapter

5.8

Remark: although a no-observed-effect level (NOEL) for his-

topathological findings was not found in this study, observations among rats exposed to $4.5~\mathrm{ppm}$ or less were limited to minimal effects on nasal tissues

Result: clinical signs:

no clear signs of toxicity (no other information),

no deaths, no differences in body weight gain or terminal

body weight compared to controls; haematology, male and female:

concentration-related increase in methaemoglobinaemia (m sign: from 1.1 ppm at d23; from 2.3 ppm at all time points with max of 1.14 g/dl at 18 ppm; f sign.: from 1.1 ppm at week 13 and from 2.3 ppm at all time points with max of 1.04 g/dl at 18 ppm), reticulocyte count (sign. at all dose groups at week 13), nucleated erythrocytes, leucocyte count (predominantly at the highest dose groups of male and

(predominantly at the highest dose groups of male and females); concentration-related decrease in haematocrit, haematoglobin, RBC (m. sign.: 1.1 ppm(d23), 4.4 ppm

(week13), 9 ppm (d4, week13), 18 ppm (at all time points); f. sign.: at every dose group at week13), MCH and MCHC (only in females)

clinical chemistry, male and female:

increase in serum activities of sorbitol dehydrogenase and alanine aminotransferase in different male and female

exposure groups at various time points, decrease in alkaline

phosphatase

pathology: dark spleen (1 female, 2 males, 18 ppm)

concentration-related increases in liver, spleen and right

kidney weight

Histopathologic changes:

liver: basophilia of centrilobular hepatocytes, kidney: pigmentation and regeneration of the proximal convoluted

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OECD SIDS 5. TOXICITY 1-CHLORO-2-NITROBENZENE

Sex: male/female

DATE: 26-NOV-2003

SUBSTANCE ID: 88-73-3

tubules, spleenic congestion was observed in all exposed and control rats: in males with dose-dependent increase in severity and in females with dose-dependent increase in incidences; nose: hyperplasia of the nasal cavity

respiratory epithelium

Reliability:

(1) valid without restriction Critical study for SIDS endpoint

21-MAR-2003

(45) (80) (102)

Species:

Flag:

rat

Sprague-Dawley Route of administration: inhalation

Exposure period: 4 w

Frequency of treatment: 6 h/d, 5 d/w

Post exposure period: no

Doses: 0, 10, 30 or 60 mg/m3

yes, concurrent no treatment Control Group:

LOAEL: ca. .01 mg/l

Method: other: 15 rats/sex/group, whole body exposure, haematology,

clinical chemistry, gross and microscopic examination,

statistical analysis

1986 Year: no data GT.P:

Test substance:

Result:

other TS: purity: 99.71% all concentration groups:

no deaths, mean body weights comparable to controls,

microscopic changes of the spleen: increased degree of

haemosiderosis

0.01 mg/l: slight, but statistically significant increase

in relative liver weights in male rats

0.03 and 0.06 mg/l: increases in liver, kidneys and spleen weight, significant increase in blood methaemoglobin levels and decrease in haemoglobin, haematocrit and red blood cell

count values; increases in liver, kidney, and spleen

weights, microscopic changes of the spleen:

slight increase in degree of extramedullary haematopoiesis

Reliability: (2) valid with restrictions

Histopathologic evaluation not performed from all animals,

no information on GLP

21-MAR-2003 (73) (74)

rat : Species: Sex: male/female

other: F344/N Route of administration: inhalation Exposure period: 2 weeks Frequency of treatment: 6 h/d, 5 d/w

Post exposure period: no

0, 1.1, 2.3, 4.5, 9, 18 ppm (approx. 0, 7, 14.7, 28.8,

57.6, 115.2 mg/m3) yes

Control Group:

ca. 1.1 ppm

LOAEL:

Method. other: 5 rats/sex/group, whole body exposure, complete

necropsies on all rats, histopatholologic evaluation of all

rats in the controls and the highest exposure group

1993 Year: GLP: yes

other TS: purity: 99 % Test substance:

DATE: 26-NOV-2003

SUBSTANCE ID: 88-73-3

Result: clinical signs:

18 ppm, males: hypoactivity, ataxia, pallor

18 ppm, males, females: dehydration, nasal discharge,

decreased urination and defecation

all concentration groups:

no deaths, body weight gain was not affected

pathology:

males and females: exposure-related increases in liver

weights,

18 ppm, males, females: increased spleen weights 18 ppm-group, males: slight increased relative kidney

weights

histopathologic findings:

18 ppm, all rats:

hemosiderin deposition in liver (minimal) and spleen (mild

severity)

Reliability:

(2) valid with restrictions

dose-finding study

21-MAR-2003 (80)

Species:

Sex: male/female rat.

Strain: Sprague-Dawley Route of administration: inhalation

Exposure period: 3 days

Frequency of treatment: 6 hours/day, daily

Post exposure period: none

Doses: $0.045 \, \text{mg/l}$ Control Group: yes

< .045 mg/lNOAEL: LOART: = .045 mg/l

Method: other: no information

Year: 1982 GLP: yes

Test substance: other TS: as prescribed in 1.1-1.4 of the Monsanto datasheet

0.045 mg/l blood, methaemoglobin (3%), incr.; m.f. Result:

Source: Monsanto Reliability: (3) invalid

information on method and no. of animals is missing

21-MAR-2003 (70)

Sex: male Species: rat

Strain: other: Crl:CD Route of administration: inhalation Exposure period: 2 weeks

Frequency of treatment: 6 hrs/d, 5 d/week

13 d Post exposure period:

0, 0.03, 0.15, 0.53 mg/l Doses: yes, concurrent no treatment ca. .03 mg/l Control Group:

NOAEL:

Method: other Year: 1984 GLP: no data

Test substance: other TS: purity: 99.8 %

Result: haemolytic anemia, methaemoglobinemia

Reliability: (2) valid with restrictions

no information of GLP

21-MAR-2003 (32)

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OECD SIDS 5. TOXICITY 1-CHLORO-2-NITROBENZENE

Sex: no data

DATE: 26-NOV-2003

SUBSTANCE ID: 88-73-3

Species:

rat

Strain:

no data

Route of administration: oral unspecified

20 d

Exposure period: Frequency of treatment:

daily Post exposure period: no data

Doses: Control Group: 70 mg/kg bw/d other: no data

Method:

other: 20 rats, no further information

Year:

1967 no

GLP: Test substance:

other TS: no data on purity

Result:

no deaths (thus, the test substance may be regarded as

lacking any marked cumulative properties)

Reliability:

(3) invalid

only one dose used, lack of information (e.g. unspecified

route of oral administration)

16-JUN-2003

(22)

Sex: no data

Species: Strain:

rat

no data

Route of administration: oral unspecified

7 months Exposure period:

Frequency of treatment: daily

Post exposure period:

no data 0.0025, 0.005, 0.025. 0.25 or 5 mg/kg bw/d

Doses: Control Group:

yes

NOAEL: ca. .25 mg/kg bw

Method:

other: CNS function evaluated according Cherkinskii, 1949: method of conditioned reflexes (time required for appearance,

establishment, latent period, magnitude, frequency of

occurrence), no further information

Year:

1967

GLP: Test substance:

other TS: no data on purity

Remark:

o-, m-, and p-chloronitrobenzene were tested: the para-

isomer was found to be most toxic

Result:

0.0025, 0.005, 0.025, 0.25 mg/kg bw/d: no toxic effects

5 mg/kg bw/d:

hemapoetic system, last month of the experiment: increase in the methaemoglobin content in the blood,

decrease of the haemoglobin content,

increase in the reticulocyte count (up to 78 %) and presence

of Heinz bodies in the erythrocytes (up to 47 %);

liver function test: slight increase in blood alkaline

phosphatase (no detail given)

effects on CNS function: some slowing down of

fixation of the positive conditioned reaction and of the development of the differentiation reaction; liver function tests: increase in the blood alkaline phosphatase activity; rise in the level of bilirubin in the urine

urine: slight increase in bilirubin level

Reliability:

(4) not assignable

lack of relevant information

16-JJN-2003

(22)

75

Sex: male/female

DATE: 26-NOV-2003

SUBSTANCE ID: 88-73-3

Species:

Strain:

B6C3F1 Route of administration: inhalation Exposure period: 13 w

Frequency of treatment:

6 h/d, 5 d/w

Post exposure period:

no

0, 1.1, 2.3, 4.5, 9 or 18 ppm (0, 7, 14.7, 28.8,

57.6,115.2 mg/m3)

Control Group:

ves

Method:

other: 10 mice/sex/group, whole body exposure, body/organ weight, gross and microscopic pathology , statistical analysis; histopathological evaluations on reproductive

organs: see chapter 5.8

Year: GLP: 1993 yes

Test substance:

other TS: purity: 99 %

Result:

No clinical signs related to 2-chloronitrobenzene exposure Mortality: 18 ppm, week 12, 2/10 males (livers darkly discoloured, defuse, severe sinusoidal congestion with

hepatocellular degeneration and necrosis);

males: no significant different in body weight gain between control and treated mice; females: from 2.3 ppm body weight

greater than in control mice

pathology:

2.3, 4.5, 9 and 18 ppm: increases in right kidney weight and liver weight (all groups, females) 9 and 18 ppm: increase in liver weights (males),

hepatocytomegaly in all males; spleen

enlargement among females due to hematopoietic cell

proliferation

18 ppm: incidence of mild hepatic mineralization and/or necrosis, pale discoloration of the liver (1/10 females, 6/10 males), chronic inflammation in the liver (especially males), incidence of hematopoietic cell proliferation in the spleens of the males; histopathologic changes in the liver, notably hepatocytomegaly observed among females

NOAEL: 4.5 ppm (histopathological injury)

Reliability:

Flag:

(1) valid without restriction

30-AUG-2001

Critical study for SIDS endpoint

Sex: male/female

(44) (80) (102)

Species: Strain:

mouse B6C3F1 Route of administration: inhalation Exposure period: 2 weeks

Frequency of treatment: Post exposure period:

6 h/d, 5 d/w no

Doses:

0, 1.1, 2.3, 4.5, 9, 18 ppm (approx. 0, 7, 14.7, 28.8,

57.6, 115.2 mg/m3)

Control Group:

NOAEL:

ves

ca. 2.3 ppm

Method:

other: 5 mice/sex/group, whole body exposure, complete

necropsy on all mice, histopathological evaluation on all mice

Year:

yes

GLP: Test substance:

other TS: purity: 99 %

Result:

clinical signs:

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