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I U C L I D D a t a S e t

Existing Chemical ID: 88-73-3
CAS No. 88-73-3
EINECS Name 1-chloro-2-nitrobenzene
EC No. 201-854-9
TSCA Name Benzene, 1-chloro-2-nitro-
Molecular Formula C6H4ClNO2

Producer Related Part
Company: Bayer AG
Creation date: 08-JUN-1993

Substance Related Part
Company: Bayer AG
Creation date: 08-JUN-1993

Memo: OECD HPV Chemicals Programme, SIDS Dossier, approved at
SIAM 13 (6-9 November 2001)

Printing date: 26-NOV-2003
Revision date: 02-JUN-1994
Date of last Update: 26-NOV-2003

Number of Pages: 96

Chapter (profile): Chapter: 1, 2, 3, 4, 5, 6, 7, 8, 10
Reliability (profile): Reliability: without reliability, 1, 2, 3, 4
Flags (profile): Flags: without flag, confidential, non confidential, WGK
(DE), TA-Luft (DE), Material Safety Dataset, Risk
Assessment, Directive 67/548/EEC, SIDS

1.0.1 Applicant and Company Information

Type: cooperating company
Name: ACNA C.O.
Town: 17010 Cengio (SV)
Country: Italy

Type: cooperating company
Name: Chemie AG Bitterfeld-Wolfen
Town: 06749 Bitterfeld-Wolfen
Country: Germany

Type: cooperating company
Name: Hoechst AG
Town: 65903 Frankfurt/Main
Country: Germany

Type: cooperating company
Name: Monsanto
Town: 1150 Brussels
Country: Belgium

Type: cooperating company
Name: Rhone-Poulenc Chimie
Street: 25 quai Paul Doumer
Town: 92408 Courbevoie Cedex
Country: France

1.0.2 Location of Production Site, Importer or Formulator

1.0.3 Identity of Recipients

1.0.4 Details on Category/Template

1.1.0 Substance Identification

1.1.1 General Substance Information

Substance type: organic
Physical status: solid
Purity: > 99 - % w/w

Remark: cooperating companies for the Existing Chemical Regulation:
Hoechst AG, Germany
Chemie AG Bitterfeld-Wolfen, Germany
Monsanto Europe S.A., Belgium
Rhone-Poulenc Chimie, France
ACNA Chimica Organica, Italy
Flag: Critical study for SIDS endpoint
16-NOV-2000

1.1.2 Spectra

1.2 Synonyms and Tradenames

1-CHLORO-2-NITROBENZOL

Flag: Critical study for SIDS endpoint
27-JUL-2001

1-NITRO-2-CHLORBENZOL

Flag: Critical study for SIDS endpoint

2-CHLOR-1-NITROBENZOL

Flag: Critical study for SIDS endpoint

2-CHLORNITROBENZOL

Flag: Critical study for SIDS endpoint

2-NITRO-1-CHLORBENZOL

Flag: Critical study for SIDS endpoint

2-NITROCHLORBENZOL

Flag: Critical study for SIDS endpoint

BENZENE, 1-CHLORO-2-NITRO-

Flag: Critical study for SIDS endpoint

CHLOR-O-NITROBENZOL

Flag: Critical study for SIDS endpoint

O-CHLORNITROBENZOL

Flag: Critical study for SIDS endpoint

O-NITROCHLORBENZOL

Flag: Critical study for SIDS endpoint

OCNB

Flag: Critical study for SIDS endpoint

ONCB

Flag: Critical study for SIDS endpoint

1.3 Impurities

Remark: Dinitrochlorobenzene : max. 0.01 %
p-Nitrochlorobenzene : max. 0.2 %
water : max. 0.1 %

1.4 Additives

1.5 Total Quantity

1.6.1 Labelling

Labelling: provisionally by manufacturer/importer
Symbols: (T) toxic
(N) dangerous for the environment
R-Phrases: (24/25) Toxic in contact with skin and if swallowed
(40) Possible risks of irreversible effects
(43) May cause sensitization by skin contact
(51/53) Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
(62) Possible risk of impaired fertility
S-Phrases: (28) After contact with skin, wash immediately with plenty of water and soap, if possible with Polyethylenglykol 400, too
(36/37) Wear suitable protective clothing and gloves
(45) In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
(61) Avoid release to the environment. Refer to special instructions/Safety data sets

Remark: Classification by EEC is required
Flag: Critical study for SIDS endpoint
18-JUN-2001

1.6.2 Classification

Classified: provisionally by manufacturer/importer
Class of danger: carcinogenic, category 3
R-Phrases: (40) Possible risks of irreversible effects

Flag: Critical study for SIDS endpoint
28-MAR-2000

Classified: provisionally by manufacturer/importer
Class of danger: dangerous for the environment
R-Phrases: (51/53) Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Flag: Critical study for SIDS endpoint
28-MAR-2000

Classified: provisionally by manufacturer/importer
Class of danger: harmful
R-Phrases: (62) Possible risk of impaired fertility

Remark: due to classification according to TRGS 905 (DE): risk of impaired fertility, category 3
Flag: Critical study for SIDS endpoint
25-JUN-2001

Classified: provisionally by manufacturer/importer
Class of danger: irritating
R-Phrases: (43) May cause sensitization by skin contact

Flag: Critical study for SIDS endpoint
03-APR-2000

Classified: provisionally by manufacturer/importer
Class of danger: toxic
R-Phrases: (24/25) Toxic in contact with skin and if swallowed

Remark: Classification by EEC is required

Flag: Critical study for SIDS endpoint
28-MAR-2000

1.6.3 Packaging

1.7 Use Pattern

Type: type
Category: Use in closed system

Flag: Critical study for SIDS endpoint

Type: industrial
Category: Chemical industry: used in synthesis

Flag: Critical study for SIDS endpoint

Type: use
Category: Intermediates

Flag: Critical study for SIDS endpoint

1.7.1 Detailed Use Pattern

1.7.2 Methods of Manufacture

1.8 Regulatory Measures

1.8.1 Occupational Exposure Limit Values

Type of limit: MAK (DE)

Remark: carcinogenic category 3
risk of cutaneous absorption
risk of impaired fertility, category 3

Source: TRGS 905 (DE)

Flag: Critical study for SIDS endpoint
18-JUN-2001

1.8.2 Acceptable Residues Levels

1.8.3 Water Pollution

Classified by: KBwS (DE)
Labelled by: KBwS (DE)
Class of danger: 2 (water polluting)

1.8.4 Major Accident Hazards

Legislation: Stoerfallverordnung (DE)
Substance listed: yes

Remark: Appendix I, No. 2
16-JUL-2001

1.8.5 Air Pollution

Classified by: other: producer according to TA-Luft (DE)

1. GENERAL INFORMATION

DATE: 26-NOV-2003

SUBSTANCE ID: 88-73-3

Number: 3.1.7 (organic substances)

Class of danger: I

1.8.6 Listings e.g. Chemical Inventories

1.9.1 Degradation/Transformation Products

1.9.2 Components

1.10 Source of Exposure

1.11 Additional Remarks

1.12 Last Literature Search

Type of Search: Internal and External

Remark: Environmental, ecotoxicology : November 2000
Toxicology: April 1999

25-JUN-2001

1.13 Reviews

Memo: BUA Report No. 2 (o-Chloronitrobenzene), VCH, Weinheim, Oct.
1985

25-JUN-2001

2.1 Melting Point

Value: 32 degree C

Remark: solidifying point
Flag: Critical study for SIDS endpoint
27-JUL-2001 (11)

Value: 31.7 degree C

Source: Hoechst AG Frankfurt/Main, (Reference not available)
25-JUN-2001 (38)

Value: >= 31.7 degree C

Source: Hoechst AG Frankfurt/Main, (Reference not available)
25-JUN-2001 (37)

Value: 33 degree C
25-JUN-2001 (103)

2.2 Boiling Point

Value: 245.5 degree C at 1000 hPa

Flag: Critical study for SIDS endpoint
25-JUN-2001 (103)

Value: 243 degree C at 1013 hPa
12-JUL-2001 (12)

Value: 245 degree C at 1013 hPa

Source: Hoechst AG Frankfurt/Main, (Reference not available)
25-JUN-2001 (38)

Value: 370 degree C
Decomposition: yes

Source: Hoechst AG Frankfurt/Main, (Reference not available)
25-JUN-2001 (38)

2.3 Density

Type: density
Value: 1.368 g/cm³ at 22 degree C

Flag: Critical study for SIDS endpoint
27-JUL-2001 (103)

Type: density
Value: 1.32 g/cm³ at 70 degree C

Source: Hoechst AG Frankfurt/Main (reference not available)
11-JUL-2001 (37)

Type: density
Value: 1.294 g/cm³ at 90.5 degree C

Source: Hoechst AG Frankfurt/Main, (Reference not available)
25-JUN-2001 (38)

2.3.1 Granulometry

2.4 Vapour Pressure

Value: = .04 hPa at 20 degree C
Decomposition: no

Method: Directive 84/449/EEC, A.4 "Vapour pressure"
Year: 2001
GLP: yes
Test substance: as prescribed by 1.1 - 1.4

Remark: 0.07 hPa at 25 °C
Flag: Critical study for SIDS endpoint
27-JUL-2001 (10)

Value: .0575 hPa at 20 degree C
25-JUN-2001 (16)

Value: 6 hPa at 20 degree C
24-NOV-2000 (25)

Value: 2 hPa at 67.6 degree C
14-SEP-2000 (1)

Value: 49.8 hPa at 150 degree C
Source: Hoechst AG Frankfurt/Main, (Reference not available)
25-JUN-2001 (38)

2.5 Partition Coefficient

log Pow: 2.24
Method: other (measured)
Flag: Critical study for SIDS endpoint
30-JUL-2001 (58)

log Pow: 2.46
Method: other (calculated)
Year: 2000

Remark: Calculation KOWWIN v1.66 (2001)
Flag: Critical study for SIDS endpoint
25-JUN-2001 (94)

2.6.1 Solubility in different media

Solubility in: Water
Value: .441 g/l at 20 degree C
Flag: Critical study for SIDS endpoint
27-JUL-2001 (27)

Solubility in: Water
Value: .43 g/l at 20 degree C
Source: Hoechst AG Frankfurt/Main, (Reference not available)
27-JUL-2001 (37)

Solubility in: Water
Value: .59 g/l at 20 degree C
27-JUL-2001 (16)

2.6.2 Surface Tension

2.7 Flash Point

Value: 127 degree C
Type: closed cup
Flag: Critical study for SIDS endpoint
25-JUN-2001 (103)

Value: 124 degree C
27-JUL-2001 (16)

Value: 124 degree C
Source: Hoechst AG Frankfurt/Main, (Reference not available)
25-JUN-2001 (38)

Value: 128 degree C
Type: closed cup
Method: other: DIN 51758
12-JUL-2001 (12)

2.8 Auto Flammability

Value: 470 degree C
Method: other: DIN 51794
Remark: ignition temp.
Flag: Critical study for SIDS endpoint
12-JUL-2001 (12)

Value: > 450 degree C
Source: Hoechst AG Frankfurt am Main, (Reference not available)
25-JUN-2001 (37)