

RECEIVED  
OPPT CBIC

2006 NOV 27 AM 7: 33

# I U C L I D

## Data Set

**Existing Chemical** : ID: 105-39-5  
**CAS No.** : 105-39-5  
**EINECS Name** : ethyl chloroacetate  
**EINECS No.** : 203-294-0  
**TSCA Name** : Acetic acid, chloro-, ethyl ester  
**Molecular Formula** : C4H7ClO2

**Producer Related Part**  
**Company** : The Dow Chemical Company  
**Creation date** : 03.11.2000

**Substance Related Part**  
**Company** : The Dow Chemical Company  
**Creation date** : 03.11.2000

**Memo** :

**Printing date** : 10.12.2002  
**Revision date** :  
**Date of last Update** : 10.12.2002

**Number of Pages** : 49

**Chapter (profile)** :  
**Reliability (profile)** :  
**Flags (profile)** : ???











































4.5.2 CHRONIC TOXICITY TO AQUATIC INVERTEBRATES

4.6.1 TOXICITY TO SOIL DWELLING ORGANISMS

4.6.2 TOXICITY TO TERRESTRIAL PLANTS

**Species** : other terrestrial plant  
**Endpoint** : growth  
**Exposure period** : 14 day  
**Unit** :  
**Method** : other: keine Daten  
**Year** :  
**GLP** : no data  
**Test substance** : no data  
**Remark** : No further information available.  
 Wirkung: Gegenueber verschiedenen Pflanzenarten nach  
 Bespruehung des Pflanzsubstrates mit Testloesung:  
 Sprossfrischgewicht (in % der Kontrolle) nach 14taegiger  
 Inkubation bei 23 +/- Grad C; FID-Analyse:

| Konzentration (mg/m2)           | 500   | 1000  |
|---------------------------------|-------|-------|
| Weisser Senf (Sinapis alba)     | 125 % | 120 % |
| Raygras (Lolium multiflorum)    | 83 %  | 96 %  |
| Klebkraut (Galium aparine)      | 100 % | 70 %  |
| Mais (Zea mays)                 | 112 % | 104 % |
| Hafer (vermutlich Avena sativa) | 104 % | 90 %  |

**Source** : Hoechst AG Frankfurt 80  
 Rhone-Poulenc Chimie Courbevoie Cedex  
 Hoechst AG Frankfurt 80  
 Hoechst AG Frankfurt/Main  
 EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (3) invalid  
 30.08.2001 (31)

**Species** : other terrestrial plant  
**Endpoint** : growth  
**Exposure period** : 14 day  
**Unit** :  
**Method** : other: keine Daten  
**Year** :  
**GLP** : no data  
**Test substance** : no data  
**Remark** : Wirkung: Gegenueber verschiedenen Pflanzenarten nach  
 Bespruehung des Pflanzsubstrates mit Testloesung:  
 Sprossfrischgewicht (in % der Kontrolle) nach 14tagiger  
 Inkubation bei 23 +/- Grad C; FID-Analyse:  
 Inkubation bei 23 +/- Grad C; FID-Analyse:

| Konzentration (mg/m2)           | 500   | 1000  |
|---------------------------------|-------|-------|
| Weisser Senf (Sinapis alba)     | 125 % | 120 % |
| Raygras (Lolium multiflorum)    | 83 %  | 96 %  |
| Klebkraut (Galium aparine)      | 100 % | 70 %  |
| Mais (Zea mays)                 | 112 % | 104 % |
| Hafer (vermutlich Avena sativa) | 104 % | 90 %  |

**Source** : Hoechst AG Frankfurt/Main  
 Clariant GmbH Frankfurt am Main  
 EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (3) invalid

## 4. Ecotoxicity

Id 105-39-5  
Date 10.12.2002

30.08.2001

(31)

### 4.6.3 TOXICITY TO OTHER NON-MAMM. TERRESTRIAL SPECIES

### 4.7 BIOLOGICAL EFFECTS MONITORING

### 4.8 BIOTRANSFORMATION AND KINETICS

### 4.9 ADDITIONAL REMARKS



## 5. Toxicity

Id 105-39-5

Date 10.12.2002

**GLP** : no data  
**Test substance** : no data  
**Remark** : No further information available.  
**Source** : Hoechst AG Frankfurt 80  
Rhone-Poulenc Chimie Courbevoie Cedex  
Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (2) valid with restrictions  
30.08.2001 (34)

**Type** : LD50  
**Species** : rat  
**Strain** :  
**Sex** :  
**Number of animals** :  
**Vehicle** :  
**Value** : = 180 mg/kg bw  
**Method** : other: Interne Richtlinie der Hoechst AG  
**Year** : 1979  
**GLP** : no  
**Test substance** : no data  
**Remark** : Female  
No further information available.  
**Source** : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (2) valid with restrictions  
30.08.2001 (35)

**Type** : LD50  
**Species** : rat  
**Strain** :  
**Sex** :  
**Number of animals** :  
**Vehicle** :  
**Value** : = 235 mg/kg bw  
**Method** : other: keine Angaben  
**Year** : 1986  
**GLP** : no data  
**Test substance** : no data  
**Remark** : No further information available.  
**Source** : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (2) valid with restrictions  
30.08.2001 (36)

**Type** : LD50  
**Species** : mouse  
**Strain** :  
**Sex** :  
**Number of animals** :  
**Vehicle** :  
**Value** : = 350 mg/kg bw  
**Method** : other: keine Angaben  
**Year** : 1986  
**GLP** : no data  
**Test substance** : no data  
**Remark** : No further information available.



## 5. Toxicity

Id 105-39-5

Date 10.12.2002

**Year** : 1979  
**GLP** : no  
**Test substance** : as prescribed by 1.1 - 1.4  
**Remark** : Female  
No further information available.  
**Source** : Hoechst AG Frankfurt 80  
Rhone-Poulenc Chimie Courbevoie Cedex  
Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (2) valid with restrictions  
30.08.2001 (39)

**Type** : LD50  
**Species** : rat  
**Strain** :  
**Sex** :  
**Number of animals** :  
**Vehicle** :  
**Value** : = 161 mg/kg bw  
**Method** : other: Interne Richtlinie der Hoechst AG  
**Year** : 1979  
**GLP** : no  
**Test substance** : no data  
**Remark** : Female  
No further information available.  
**Source** : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (2) valid with restrictions  
30.08.2001 (40)

**Type** : LD50  
**Species** : rabbit  
**Strain** :  
**Sex** :  
**Number of animals** :  
**Vehicle** :  
**Value** : = 230 mg/kg bw  
**Method** : other: keine Daten  
**Year** :  
**GLP** : no data  
**Test substance** : no data  
**Source** : Hoechst AG Frankfurt 80  
Rhone-Poulenc Chimie Courbevoie Cedex  
Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (2) valid with restrictions  
30.08.2001 (41)

**Type** : LD50  
**Species** : rabbit  
**Strain** :  
**Sex** :  
**Number of animals** :  
**Vehicle** :  
**Value** : = 335 mg/kg bw  
**Method** : other: Interne Richtlinie der Hoechst AG  
**Year** : 1979

## 5. Toxicity

Id 105-39-5

Date 10.12.2002

**GLP** : no  
**Test substance** : as prescribed by 1.1 - 1.4  
**Remark** : No further information available.  
**Source** : Hoechst AG Frankfurt 80  
Rhone-Poulenc Chimie Courbevoie Cedex  
Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (2) valid with restrictions  
30.08.2001 (42)

**Type** : LD50  
**Species** : rabbit  
**Strain** :  
**Sex** :  
**Number of animals** :  
**Vehicle** :  
**Value** : = 335 mg/kg bw  
**Method** : other: Interne Richtlinie der Hoechst AG  
**Year** : 1979  
**GLP** : no  
**Test substance** : no data  
**Remark** : No further information available.  
**Source** : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (2) valid with restrictions  
30.08.2001 (43)

**Type** : LD50  
**Species** : rabbit  
**Strain** : New Zealand white  
**Sex** : female  
**Number of animals** :  
**Vehicle** : other: none used  
**Value** : = 255 mg/kg bw  
**Method** : other  
**Year** : 1973  
**GLP** : no data  
**Test substance** : other TS  
**Method** : Female albino New Zealand White rabbits weighing approximately 5 pounds were used as the experimental animal. All rabbits were clipped as closely as possible with an Oster clipper having surgical blades and a vacuum attachment. The back of the rabbits and the sides down to about half way to the stomach area were clipped from the saddle area of the shoulders to the top of the rear leg area. The animals were individually weighed to determine the proper dose volume. The measured volume of the liquid material was then applied undiluted to the back of the rabbit and was divided as equally as possible between the two sides of the back. If the volume was sufficiently great, the dose was kept in place by applying 8-ply gauze patches over the liquid on each side of the back. A patch of latex rubber dental dam or vinyl plastic, whichever was most compatible with the compound being tested, was then applied over the entire back area where clipped, and elastoplast tape was used to wrap the entire midsection of the rabbit to keep the gauze in place. Specially designed rabbit restraining harnesses were fitted to each rabbit at the time of treatment. These harnesses restricted



## 5. Toxicity

Id 105-39-5

Date 10.12.2002

**Source** : No further information available.  
Hoechst AG Frankfurt 80  
Rhône-Poulenc Chimie Courbevoie Cedex  
Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)

**Reliability** : (2) valid with restrictions  
30.08.2001 (46)

**Species** : rabbit  
**Concentration** : 100 %  
**Exposure** : Occlusive  
**Exposure time** : 24 hour(s)  
**Number of animals** : 1  
**PDII** :  
**Result** : moderately irritating  
**EC classification** :  
**Method** : other  
**Year** :  
**GLP** : no data  
**Test substance** : no data  
**Method** : A male rabbit was prepared by shaving the hair from the entire abdomen with a straight razor and barber soap. The animal was then rested for several days to allow any abrasions to heal completely and to be sure skin was suitable for use. Ten applications (unoccluded) were made to the ear over a period of 14 days. Two sites on the abdomen were used for applications: one intact, the other cross-hatched with a sharp hypodermic needle to penetrate the stratum corneum but not to produce more than a trace of bleeding. Ten applications were made to the intact abdominal site over a period of 14 days. Three consecutive daily applications were made to the abraded site. Both abdominal sites were covered with 1X1 cotton pads and held place with a single cotton cloth taped to remaining body hair. Applications were discontinued upon production of a substantial skin burn, or if the animal died.

**Result** : The test was discontinued after 6 applications to the ear and intact abdomen, when it was found dead. Three applications to the abraded abdomen had also been completed.

**Reliability** : (2) valid with restrictions  
30.08.2001 (32)

**Species** : rabbit  
**Concentration** :  
**Exposure** :  
**Exposure time** :  
**Number of animals** :  
**PDII** :  
**Result** : irritating  
**EC classification** : irritating  
**Method** : OECD Guide-line 404 "Acute Dermal Irritation/Corrosion"  
**Year** : 1988  
**GLP** : yes  
**Test substance** : as prescribed by 1.1 - 1.4  
**Remark** : Einwirkzeit: 4 h  
No further information available.

**Source** : Hoechst AG Frankfurt 80  
Rhône-Poulenc Chimie Courbevoie Cedex  
Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)



## 5. Toxicity

Id 105-39-5

Date 10.12.2002

30.08.2001

(50)

**Species** : rabbit  
**Concentration** : 100 %  
**Exposure** : Occlusive  
**Exposure time** : 4 hour(s)  
**Number of animals** : 6  
**PDII** :  
**Result** : moderately irritating  
**EC classification** :  
**Method** : other  
**Year** : 1972  
**GLP** : no data  
**Test substance** : no data  
**Method** : Six New Zealand White female rabbits were prepared by clipping the hair from an area approximately 4 x 4 in. in size on the back with electric clippers 24 hours before application of the material to be evaluated. The rabbits were restrained in a stock, and the material was applied under a 1 x 1 in. gauze pad held in place with adhesive tape to two sites, one abraded and one intact. For the abraded site, the skin was cross-hatched with a hypodermic needle so as to penetrate the stratum corneum but not to produce more than a trace of bleeding. Each rabbit was loosely covered with a plastic cuff. AT the end of four hours, the gauze patches were removed and the application sites graded for erythema, edema, and necrosis. The application sites were washed with soap and water and held for additional readings at 24 and 48 hours, if necessary.

**Source** : The Dow Chemical Company

**Reliability** : (2) valid with restrictions

30.08.2001

(51)

**Species** : human  
**Concentration** :  
**Exposure** :  
**Exposure time** :  
**Number of animals** :  
**PDII** :  
**Result** :  
**EC classification** :  
**Method** : other: Patch-Test  
**Year** :  
**GLP** : no data  
**Test substance** : no data  
**Remark** : Positive Reaktion bei einem Patienten  
**Source** : Hoechst AG Frankfurt 80  
Rhône-Poulenc Chimie Courbevoie Cedex  
Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)

**Reliability** : (2) valid with restrictions

30.08.2001

(52)

### 5.2.2 EYE IRRITATION

**Species** : rabbit  
**Concentration** : undiluted  
**Dose** : 2 other: drops  
**Exposure Time** : unspecified

## 5. Toxicity

Id 105-39-5

Date 10.12.2002

|                          |   |   |      |
|--------------------------|---|---|------|
| <b>Comment</b>           | : |   |      |
| <b>Number of animals</b> | : | 1   |      |
| <b>Result</b>            | : | highly irritating   |      |
| <b>EC classification</b> | : |   |      |
| <b>Method</b>            | : | other   |      |
| <b>Year</b>              | : | 1973  |      |
| <b>GLP</b>               | : | no data   |      |
| <b>Test substance</b>    | : | no data   |      |
| <b>Method</b>            | : | Both eyes of a male New Zealand White rabbit were stained with 5% fluorescein dye and examined for evidence of injury or alterations. The rabbit was then allowed to rest for 24 hours before test.   |      |
|                          |   | Two drops of the material were introduced into the right eye. The eye was washed within 30 seconds for 2 minutes in a flowing stream of tepid water. Two drops of material were introduced in a similar fashion to the left eye, but this eye was left unwashed.  |      |
|                          |   | Immediately after instillation into each eye, the rabbit was examined for signs of discomfort. Within 2-3 minutes after the unwashed eye was treated, each eye was observed for conjunctival and corneal response. Similar observations were made on both eyes at 1 hour, 24 hours, 48 hours, and 6-8 days post-treatment. Examinations were conducted both with and without fluorescein dye. |      |
| <b>Result</b>            | : | Rabbit had very severe conjunctival irritation and moderate corneal and iridal effects in the unwashed eye after 48 hours, while the washed eye appeared normal. The test was terminated after 7 days, when the unwashed eye still had significant conjunctival irritation and moderate corneal and slight iridal effects.  |      |
| <b>Reliability</b>       | : | (2) valid with restrictions   | (32) |
| 30.08.2001               |   |   |      |
| <b>Species</b>           | : | rabbit  |      |
| <b>Concentration</b>     | : |   |      |
| <b>Dose</b>              | : |   |      |
| <b>Exposure Time</b>     | : |   |      |
| <b>Comment</b>           | : |   |      |
| <b>Number of animals</b> | : |   |      |
| <b>Result</b>            | : | highly irritating   |      |
| <b>EC classification</b> | : | risk of serious damage to eyes  |      |
| <b>Method</b>            | : | other: Interne Richtlinie der Hoechst AG  |      |
| <b>Year</b>              | : | 1979  |      |
| <b>GLP</b>               | : | no  |      |
| <b>Test substance</b>    | : | as prescribed by 1.1 - 1.4  |      |
| <b>Remark</b>            | : | Einwirkzeit: 24 h<br>No further information available.  |      |
| <b>Source</b>            | : | Hoechst AG Frankfurt 80<br>Rhone-Poulenc Chimie Courbevoie Cedex<br>Hoechst AG Frankfurt 80<br>Hoechst AG Frankfurt/Main<br>EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  |      |
| <b>Reliability</b>       | : | (2) valid with restrictions   | (46) |
| 30.08.2001               |   |   |      |
| <b>Species</b>           | : | rabbit  |      |
| <b>Concentration</b>     | : |   |      |
| <b>Dose</b>              | : |   |      |
| <b>Exposure Time</b>     | : |   |      |
| <b>Comment</b>           | : |   |      |

## 5. Toxicity

Id 105-39-5

Date 10.12.2002

**Number of animals** :  
**Result** : highly corrosive  
**EC classification** :  
**Method** : other: keine Daten  
**Year** :  
**GLP** : no data  
**Test substance** : no data  
**Source** : Hoechst AG Frankfurt 80  
Rhone-Poulenc Chimie Courbevoie Cedex  
Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (2) valid with restrictions  
30.08.2001 (53)

**Species** : rabbit  
**Concentration** :  
**Dose** :  
**Exposure Time** :  
**Comment** :  
**Number of animals** :  
**Result** : highly irritating  
**EC classification** : risk of serious damage to eyes  
**Method** : other: Interne Richtlinie der Hoechst AG  
**Year** : 1979  
**GLP** : no  
**Test substance** : no data  
**Remark** : Einwirkzeit: 24 h  
No further information available.  
**Result** : R41  
**Source** : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (2) valid with restrictions  
30.08.2001 (48)

**Species** : rabbit  
**Concentration** :  
**Dose** :  
**Exposure Time** :  
**Comment** :  
**Number of animals** :  
**Result** : highly irritating  
**EC classification** :  
**Method** : other: keine Daten  
**Year** :  
**GLP** : no data  
**Test substance** : no data  
**Source** : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (2) valid with restrictions  
30.08.2001 (53)

**Species** : human  
**Concentration** :  
**Dose** :  
**Exposure Time** :  
**Comment** :  
**Number of animals** :  
**Result** : highly corrosive  
**EC classification** :

## 5. Toxicity

Id 105-39-5

Date 10.12.2002

**Method** : other: keine Daten  
**Year** :  
**GLP** : no data  
**Test substance** : no data  
**Source** : Hoechst AG Frankfurt 80  
Rhone-Poulenc Chimie Courbevoie Cedex  
Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (2) valid with restrictions  
30.08.2001 (53)

### 5.3 SENSITIZATION

**Type** : Guinea pig maximization test  
**Species** : guinea pig  
**Number of animals** :  
**Vehicle** :  
**Result** : not sensitizing  
**Classification** :  
**Method** : other: keine Daten  
**Year** :  
**GLP** : no data  
**Test substance** : no data  
**Remark** : 5/20 Tiere = 25 % zeigten eine positive Reaktion  
**Source** : Hoechst AG Frankfurt 80  
Rhone-Poulenc Chimie Courbevoie Cedex  
Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (1) valid without restriction  
30.08.2001 (52)

**Type** : Guinea pig maximization test  
**Species** : guinea pig  
**Number of animals** :  
**Vehicle** :  
**Result** : sensitizing  
**Classification** :  
**Method** : other: keine Daten  
**Year** :  
**GLP** : no data  
**Test substance** : no data  
**Remark** : 20/20 Tiere zeigten eine positive Reaktion  
**Source** : Hoechst AG Frankfurt 80  
Rhone-Poulenc Chimie Courbevoie Cedex  
Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (1) valid without restriction  
30.08.2001 (54)

**Type** : Guinea pig maximization test  
**Species** : guinea pig  
**Number of animals** :  
**Vehicle** :  
**Result** : sensitizing  
**Classification** :  
**Method** : other: keine Daten  
**Year** :







## 5. Toxicity

Id 105-39-5

Date 10.12.2002

**Metabolic activation** : with and without  
**Result** : negative  
**Method** : OECD Guide-line 472 "Genetic Toxicology: Escherichia coli Reverse Mutation Assay"  
**Year** : 1983  
**GLP** : no  
**Test substance** : no data  
**Remark** : No further information available.  
**Source** : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (2) valid with restrictions  
30.08.2001 (58)

**Type** : Ames test  
**System of testing** : Salmonella typh. TA102, TA2638, E. coli WP2/pKM101 und WP2uvrA/pK101  
**Concentration** : 0, 78, 156, 313, 500, 625, 1000, 1250, 1500, 2000, 2500, 5000 ug/plate  
**Cycotoxic conc.** : TA102: 1500; TA2638: 1500; none noted for others  
**Metabolic activation** : with and without  
**Result** : negative  
**Method** : other: keine Angaben  
**Year** : 1996  
**GLP** : no data  
**Test substance** : no data  
**Method** : Plate incorporation method with or without metabolic activation, essentially as described by Maron and Ames, 1983 (Mutation Research 113: 173-215). Positive controls were included in each experiment. The results were analyzed for statistical significance using a linear regression test recommended by UKEMS and carried out at the 1% significance level. Doses with observed cytotoxicity, which was judged by a toxicity to the background lawn and/or a reduction in the number of revertent colonies, were excluded from the statistical analysis.  
**Remark** : No further information available.  
**Result** : in der Publikation wird von einem von zwei Prufinstituten mit E. coli WP2uvrA/pKM101 ein positives Ergebnis angegeben, die Revertanzahl ist jedoch nicht um das doppelte erhöht.  
**Source** : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
EUROPEAN COMMISSION - European Chemicals Bureau Ispra (VA)  
**Reliability** : (2) valid with restrictions  
30.08.2001 (59)

**Type** : Ames test  
**System of testing** : Salmonella typhimurium TA 100  
**Concentration** :  
**Cycotoxic conc.** :  
**Metabolic activation** : with and without  
**Result** : negative  
**Method** : other: keine Daten  
**Year** :  
**GLP** : no data  
**Test substance** : no data  
**Remark** : No further information available.  
**Source** : Hoechst AG Frankfurt 80  
Rhône-Poulenc Chimie Courbevoie Cedex  
Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main













## 6. References

Id 105-39-5  
Date 10.12.2002

- (22) Hoechst AG (1986): Unveroeffentlichte Untersuchung (W 86-442)
- (23) Hoechst AG (1986): Unveroeffentlichte Untersuchung (W 86-442)
- (24) Hoechst AG (1979): Unveroeffentlichte Untersuchung (15.11.1979)
- (25) Hoechst AG (1979): Unveroeffentlichte Untersuchung (15.11.1979)
- (26) Hoechst AG (1989): Unveroeffentlichte Untersuchung (89.0300)
- (27) Hoechst AG (1989): Unveroeffentlichte Untersuchung (89.0300)
- (28) Kuehn et al. (1989): Water Res. 23, 495-499
- (29) Hoechst AG (1984): Unveroeffentlichte Untersuchung (W 84-442)
- (30) Hoechst AG (1984): Unveroeffentlichte Untersuchung (W 84-442)
- (31) Jablonkai, Dutka (1989): Brighton Crop Protection Conference - Weeds, 455-462
- (32) Unpublished data, The Dow Chemical Company
- (33) Hoechst AG (1979): Unveroeffentlichte Untersuchung (79.0237)
- (34) Clayton & Clayton (1981): Patty's Ind. Hyg. Toxicol., eds., 3rd Ed., 2384-2412
- (35) Hoechst AG (1979): Unveroeffentlichte Untersuchung (79.0237)
- (36) Gig. Tr. Prof. Zabol. 30(5), 59 (1986)
- (37) Hoechst AG (1979): Unveroeffentlichte Untersuchung (79.0380)
- (38) Hoechst AG (1979): Unveroeffentlichte Untersuchung (79.0380)
- (39) Hoechst AG (1979): Unveroeffentlichte Untersuchung (79.0238)
- (40) Hoechst AG (1979): Unveroeffentlichte Untersuchung (79.0238)
- (41) Vernot et al. (1977): Toxicol. Appl. Pharmacol. 42, 417-423
- (42) Hoechst AG (1979): Unveroeffentlichte Untersuchung (79.0240)
- (43) Hoechst AG (1979): Unveroeffentlichte Untersuchung (79.0240)
- (44) Back, K.C., Thomas, A.A., and MacEwen, J.D. (1973). Reclassification of Materials Listed as Transportation Health Hazards --- Supplement I. Department of Transportation, Office of Hazardous Materials, Washington, D.C.
- (45) Yokoi (1954): Jpn. J. Pharmacol. 3, 99-111
- (46) Hoechst AG (1979): Unveroeffentlichte Untersuchung (79.0239)





2006 NOV 27 AM 7:32

# I U C L I D

## Data Set

**Existing Chemical** : ID: 79-11-8  
**CAS No.** : 79-11-8  
**Generic name** : Chloroacetic acid

**Producer Related Part**  
**Company** : The Dow Chemical Company  
**Creation date** : 24.01.2002

**Substance Related Part**  
**Company** : The Dow Chemical Company  
**Creation date** : 12.10.2002

**Memo** :

**Printing date** : 12.10.2002  
**Revision date** :  
**Date of last Update** : 12.10.2002

**Number of Pages** : 3

**Chapter (profile)** :  
**Reliability (profile)** :  
**Flags (profile)** : ???

# 1. General Information

Id 79-11-8  
Date 10.12.2002

## 1.0.1 OECD AND COMPANY INFORMATION

Type : cooperating company  
Name : The Dow Chemical Company  
Partner :  
Date :  
Street : 2020 Dow Center  
Town : 48674 Midland, Michigan  
Country : United States  
Phone :  
Telefax :  
Telex :  
Cedex :  
25.01.2002

## 1.0.2 LOCATION OF PRODUCTION SITE

## 1.0.3 IDENTITY OF RECIPIENTS

## 1.1 GENERAL SUBSTANCE INFORMATION

### 1.1.0 DETAILS ON TEMPLATE

#### 1.1.1 SPECTRA

## 1.2 SYNONYMS

## 1.3 IMPURITIES

## 1.4 ADDITIVES

## 1.5 QUANTITY

### 1.6.1 LABELLING

### 1.6.2 CLASSIFICATION

## 1.7 USE PATTERN





























































## 4. Ecotoxicity

Id 79-11-8

Date 10.12.2002

**Test condition** : pH: 8.0 - 8.2; temperature: 23 – 27 °C;  
Test parameters: survival rate (eggs + fish), disorders of embryonal development, floating performance of hatched fish

**Test substance** : monochloroacetic acid

**Reliability** : (1) valid without restriction  
Study in accordance with national standard procedure/standard method (51)

**Type** : static

**Species** : *Leuciscus idus melanotus* (fish, fresh water)

**Exposure period** : 96 hour(s)

**Unit** : mg/L

**Analytical monitoring** : no

**LC0** : = 100

**LC50** : 100 - 500

**Method** : other: internal guideline of Hoechst AG

**Year** : 1979

**GLP** : no

**Test substance** : as prescribed by 1.1 - 1.4

**Remark** : In the 1 - 100 mg/L test groups (pH 8.3 - 8.7) 0 % lethality. At 500 mg/L (pH 3.8) 100 % of the fish died 78 - 173 min after addition of the preparation. Based on macroscopic findings (burning of the gills and skin; behavior: gasping breathing, elevated breathing rate, equilibrium disorders, floating on the water surface etc.), death is attributable to the low pH.

**Source** : Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main (52)

**Type** : static

**Species** : *Leuciscus idus melanotus* (fish, fresh water)

**Exposure period** : 96 hour(s)

**Unit** : mg/L

**Analytical monitoring** : no

**LC0** : = 100

**LC50** : 100 - 500

**Method** : other: internal guideline of Hoechst AG

**Year** : 1979

**GLP** : no

**Test substance** : as prescribed by 1.1 - 1.4

**Remark** : In the 1 - 100 mg/L test groups (pH 8.3 - 8.7) 0 % lethality. At 500 mg/L (pH 3.8) 100 % of the fish died 78 - 173 min after addition of the preparation. Based on macroscopic findings (burning of the gills and skin; behavior: gasping breathing, elevated breathing rate, equilibrium disorders, floating on the water surface etc.), death is attributable to the low pH.

**Source** : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main

**Reliability** : (2) valid with restrictions  
Study in accordance with standard laboratory procedures by a recognized institute (53)

**Type** : static

**Species** : *Poecilia reticulata* (fish, fresh water)

**Exposure period** : 96 hour(s)

**Unit** : mg/L

**Analytical monitoring** : no data

**LC50** : = 369



## 4. Ecotoxicity

Id 79-11-8

Date 10.12.2002

**Type** :  
**Species** : Daphnia magna (Crustacea)  
**Exposure period** : 24 hour(s)  
**Unit** : mg/L  
**Analytical monitoring** : no  
**EC50** : = 427  
**Method** : other: determination of biological damage to small crayfish caused by water-polluting substances  
**Year** :  
**GLP** : no  
**Test substance** : other TS  
**Remark** : determined in neutralized condition; nominal concentration  
**Source** : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
**Test substance** : monochloroacetic acid  
**Reliability** : (2) valid with restrictions  
Study according to standard laboratory procedures by recognized institute

(37)

**Type** :  
**Species** : Daphnia magna (Crustacea)  
**Exposure period** : 24 hour(s)  
**Unit** : mg/L  
**Analytical monitoring** : no  
**EC50** : = 79  
**Method** : other: determination of biological damage to small crayfish caused by water-polluting substances  
**Year** :  
**GLP** : no  
**Test substance** : other TS  
**Remark** : not neutralized; nominal concentration  
**Source** : Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
**Test substance** : monochloroacetic acid

(37)

**Type** :  
**Species** : Daphnia magna (Crustacea)  
**Exposure period** : 24 hour(s)  
**Unit** : mg/L  
**Analytical monitoring** : no  
**EC50** : = 427  
**Method** : other: determination of biological damage to small crayfish caused by water-polluting substances  
**Year** :  
**GLP** : no  
**Test substance** : other TS  
**Remark** : determined in neutralized condition; nominal concentration  
**Source** : Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
**Test substance** : monochloroacetic acid

(37)

**Type** :  
**Species** : Daphnia magna (Crustacea)  
**Exposure period** : 48 hour(s)  
**Unit** : mg/L  
**Analytical monitoring** : no data  
**EC0** : = 55  
**EC50** : = 77



## 4. Ecotoxicity

Id 79-11-8

Date 10.12.2002

**Method** : other: NEN 6501. Water. Determination of acute toxicity with the aid of Daphnia magna  
**Year** : 1985  
**GLP** : no data  
**Test substance** : other TS  
**Source** : Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
**Test condition** : pH. 8.1 - 8.2; temperature: 20 °C  
**Test substance** : monochloroacetic acid

(50)

**Type** :  
**Species** : Daphnia magna (Crustacea)  
**Exposure period** : 48 hour(s)  
**Unit** : mg/L  
**Analytical monitoring** : no  
**EC50** : = 88  
**Method** : other: NEN 6501. Water. Determination of acute toxicity with the aid of Daphnia magna  
**Year** : 1985  
**GLP** : no data  
**Test substance** : other TS  
**Source** : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
**Test condition** : pH: 8.1 - 8.2; temperature: 20 °C  
**Test substance** : monochloroacetic acid  
**Reliability** : (1) valid without restriction  
Study in accordance with national standard procedure/standard method

(51)

**Type** :  
**Species** : Daphnia magna (Crustacea)  
**Exposure period** : 21 day  
**Unit** : mg/L  
**Analytical monitoring** : no data  
**NOEC** : = 32  
**Method** : other: [German] Federal Office for the Environment (1984): preliminary test proposal: "Extended Toxicity Test for Daphnia magna"  
**Year** :  
**GLP** : no data  
**Test substance** : other TS  
**Remark** : Parameters studied: reproduction rate, mortality and time of appearance of first offspring  
**Source** : Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
**Test condition** : pH: not less than 7; deviation of concentration measured at the end of the test from the nominal concentration is less than 20 %  
**Test substance** : monochloroacetic acid

(56)

**Type** :  
**Species** : Daphnia magna (Crustacea)  
**Exposure period** : 48 hour(s)  
**Unit** : mg/L  
**Analytical monitoring** : no data  
**EC50** : = 75  
**Method** : other: no data  
**Year** :  
**GLP** : no  
**Test substance** : no data  
**Remark** : It is unclear whether and how the test medium was neutralized  
**Source** : Hoechst AG Frankfurt/Main



## 4. Ecotoxicity

Id 79-11-8

Date 10.12.2002

**Test condition** : Hoechst AG Frankfurt/Main  
pH: 7.7 - 8.1 (57)

**Species** : Scenedesmus subspicatus (Algae)  
**Endpoint** : biomass  
**Exposure period** : 72 hour(s)  
**Unit** : mg/L  
**Analytical monitoring** : no  
**NOEC** : = .0058  
**EC10** : = .006  
**EC50** : = .025  
**Method** : OECD Guideline 201 "Algae, Growth Inhibition Test"  
**Year** : 1992  
**GLP** : yes  
**Test substance** : as prescribed by 1.1 - 1.4  
**Remark** : The indicated concentrations are nominal concentrations.  
**Source** : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main

**Test condition** : pH: 7.7 - 8.1  
**Reliability** : (1) valid without restriction  
Guideline study (58)

**Species** : Scenedesmus subspicatus (Algae)  
**Endpoint** : biomass  
**Exposure period** : 48 hour(s)  
**Unit** : mg/L  
**Analytical monitoring** : no data  
**EC10** : = .007  
**EC50** : = .028  
**Method** : other: Scenedesmus cell growth inhibition test, DIN 38412 Part 9,  
Determination of the Inhibiting Action of Substances Contained in Water on  
Green Algae, modified method

**Year** :  
**GLP** : no data  
**Test substance** : other TS  
**Source** : Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main

**Test condition** : pH: 8.1 - 9.6  
**Test substance** : monochloroacetic acid (59)

**Species** : Scenedesmus subspicatus (Algae)  
**Endpoint** : biomass  
**Exposure period** : 48 hour(s)  
**Unit** : mg/L  
**Analytical monitoring** : no data  
**EC10** : = .007  
**EC50** : = .028  
**Method** : other: Scenedesmus cell growth inhibition test, DIN 38412 Part 9,  
Determination of the Inhibiting Action of Substances Contained in Water on  
Green Algae, modified method

**Year** :  
**GLP** : no data  
**Test substance** : other TS  
**Source** : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main

**Test condition** : pH: 8.1 - 9.6  
**Test substance** : monochloroacetic acid  
**Reliability** : (1) valid without restriction  
Study in accordance with national standard procedure/standard method.



















## 5. Toxicity

Id 79-11-8

Date 10.12.2002

**Method** : other: no data  
**Year** :  
**GLP** : no data  
**Test substance** : other TS  
**Source** : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
**Test substance** : monochloroacetic acid  
**Reliability** : (4) not assignable  
Original report in Russian (67)

**Type** : LD50  
**Species** : rat  
**Strain** :  
**Sex** :  
**Number of animals** :  
**Vehicle** :  
**Value** : = 55 mg/kg bw  
**Method** : other: no data  
**Year** : 1974  
**GLP** : no data  
**Test substance** : no data  
**Source** : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
**Reliability** : (4) not assignable  
Original report in Russian (69)

**Type** : LD50  
**Species** : mouse  
**Strain** :  
**Sex** :  
**Number of animals** :  
**Vehicle** :  
**Value** : = 165 mg/kg bw  
**Method** : other: no data  
**Year** :  
**GLP** : no data  
**Test substance** : other TS  
**Source** : Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
**Test substance** : monochloroacetic acid (70)

**Type** : LD50  
**Species** : mouse  
**Strain** :  
**Sex** :  
**Number of animals** :  
**Vehicle** :  
**Value** : = 260 mg/kg bw  
**Method** : other: no data  
**Year** :  
**GLP** : no data  
**Test substance** : other TS  
**Source** : Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
**Test substance** : monochloroacetic acid (71)

**Type** : LD50  
**Species** : mouse

## 5. Toxicity

Id 79-11-8  
Date 10.12.2002

Strain :  
Sex :  
Number of animals :  
Vehicle :  
Value : = 300 mg/kg bw  
Method : other: no data  
Year :  
GLP : no data  
Test substance : other TS  
Remark : male  
Source : Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
Test substance : monochloroacetic acid

(72)

Type : LD50  
Species : mouse  
Strain :  
Sex :  
Number of animals :  
Vehicle :  
Value : = 165 mg/kg bw  
Method : other: no data  
Year :  
GLP : no data  
Test substance : other TS  
Source : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
Test substance : monochloroacetic acid  
Reliability : (2) valid with restrictions  
Guideline similar study with acceptable limitations

(70)

Type : LD50  
Species : mouse  
Strain :  
Sex :  
Number of animals :  
Vehicle :  
Value : = 260 mg/kg bw  
Method : other: no data  
Year :  
GLP : no data  
Test substance : other TS  
Source : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
Test substance : monochloroacetic acid  
Reliability : (2) valid with restrictions  
Guideline similar study with acceptable limitations

(71)

Type : LD50  
Species : mouse  
Strain :  
Sex :  
Number of animals :  
Vehicle :  
Value : = 300 mg/kg bw  
Method : other: no data  
Year :  
GLP : no data  
Test substance : other TS







## 5. Toxicity

Id 79-11-8

Date 10.12.2002

Route of admin. : intraperitoneal [i.p.]  
Exposure time :  
Value : = 154 mg/kg bw  
Method : other: no data  
Year :  
GLP : no data  
Test substance : other TS  
Source : Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
Test substance : monochloroacetic acid (78)

Type : LD50  
Species : rat  
Strain :  
Sex :  
Number of animals :  
Vehicle :  
Route of admin. : i.p.  
Exposure time :  
Value : = 154 mg/kg bw  
Method : other: no data  
Year :  
GLP : no data  
Test substance : other TS  
Source : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
Test substance : monochloroacetic acid  
Reliability : (4) not assignable  
Original report in Russian (78)

Type : LD50  
Species : rat  
Strain :  
Sex :  
Number of animals :  
Vehicle :  
Route of admin. : subcutaneous [s.c.]  
Exposure time :  
Value : = 5 mg/kg bw  
Method : other: no data  
Year :  
GLP : no data  
Test substance : other TS  
Remark : male  
Source : Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
Test substance : monochloroacetic acid (79)

Type : LD50  
Species : rat  
Strain :  
Sex :  
Number of animals :  
Vehicle :  
Route of admin. : s.c.  
Exposure time :  
Value : = 97.4 mg/kg bw  
Method : other: internal guideline of Hoechst AG  
Year : 1979

## 5. Toxicity

Id 79-11-8

Date 10.12.2002

GLP : no data  
Test substance : as prescribed by 1.1 - 1.4  
Remark : female  
Source : Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main

(80)

Type : LD50  
Species : rat  
Strain :  
Sex :  
Number of animals :  
Vehicle :  
Route of admin. : s.c.  
Exposure time :  
Value : = 108 mg/kg bw  
Method : other: no data  
Year :  
GLP : no data  
Test substance : other TS  
Remark : male  
Source : Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
Test substance : monochloroacetic acid

(81)

Type : LD50  
Species : rat  
Strain :  
Sex :  
Number of animals :  
Vehicle :  
Route of admin. : s.c.  
Exposure time :  
Value : = 5 mg/kg bw  
Method : other: no data  
Year :  
GLP : no data  
Test substance : other TS  
Remark : Sex: male  
Source : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
Test substance : monochloroacetic acid  
Reliability : (4) not assignable  
Abstract

(79)

Type : LD50  
Species : rat  
Strain :  
Sex :  
Number of animals :  
Vehicle :  
Route of admin. : s.c.  
Exposure time :  
Value : = 97.4 mg/kg bw  
Method : other: internal guideline of Hoechst AG  
Year : 1979  
GLP : no data  
Test substance : as prescribed by 1.1 - 1.4  
Remark : Sex: female  
Source : Hoechst AG Frankfurt/Main



## 5. Toxicity

Id 79-11-8

Date 10.12.2002

Type : LD50  
Species : mouse  
Strain :  
Sex :  
Number of animals :  
Vehicle :  
Route of admin. : s.c.  
Exposure time :  
Value : = 250 mg/kg bw  
Method : other: no data  
Year :  
GLP : no data  
Test substance : other TS  
Source : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
Test substance : monochloroacetic acid  
Reliability : (2) valid with restrictions  
Guideline similar study with acceptable limitations

(83)

Type : LD50  
Species : mouse  
Strain :  
Sex :  
Number of animals :  
Vehicle :  
Route of admin. : s.c.  
Exposure time :  
Value : = 150 mg/kg bw  
Method : other: no data  
Year :  
GLP : no data  
Test substance : other TS  
Remark : Sex: male  
Source : Hoechst AG Frankfurt/Main  
Clariant GmbH Frankfurt am Main  
Test substance : monochloroacetic acid  
Reliability : (4) not assignable  
Abstract

(72)

Type : LD50  
Species : rat  
Strain :  
Sex :  
Number of animals :  
Vehicle :  
Route of admin. : i.v.  
Exposure time :  
Value : = 55 mg/kg bw  
Method : other: no data  
Year :  
GLP : no data  
Test substance : other TS  
Source : Hoechst AG Frankfurt 80  
Hoechst AG Frankfurt/Main  
Test substance : monochloroacetic acid

(69)

Type : LD50  
Species : rat



















































































































