

**SIGMA-ALDRICH****SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Product name : Dylox

Product Number : PS608  
Brand : Supelco

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**2. HAZARDS IDENTIFICATION****Risk advice to man and the environment**

Harmful if swallowed. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : C<sub>4</sub>H<sub>8</sub>Cl<sub>3</sub>O<sub>4</sub>P  
Molecular Weight : 257,44 g/mol

CAS-No.	EC-No.	Index-No.	Classification	Concentration
<b>Trichlorfon</b>				
52-68-6	200-149-3	015-021-00-0	Xn, N, R22 - R43 - R50/53	-

**4. FIRST AID MEASURES****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.



Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1,730 g/cm <sup>3</sup> at 20 °C
Water solubility	soluble
Partition coefficient: n-octanol/water	log Pow: 0,51

## 10. STABILITY AND REACTIVITY

### Storage stability

Stable under recommended storage conditions.

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Phosphorous oxides, Carbon oxides, Hydrogen chloride gas

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Oral - rat - 882 mg/kg

LC50 Inhalation - rat - 1.300 mg/m<sup>3</sup>

LD50 Dermal - rat - 2.000 mg/kg

### Irritation and corrosion

Eyes - rabbit - Mild eye irritation

### Sensitisation

no data available

### Chronic exposure

Carcinogenicity - rat - Skin

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors.

Carcinogenicity - rat - Intramuscular

Tumorigenic: Carcinogenic by RTECS criteria. Liver: Tumors. Blood: Tumors.

Carcinogenicity - rat - Oral

Tumorigenic: Carcinogenic by RTECS criteria. Liver: Tumors. Blood: Tumors.

IARC: Group 3 - Not classifiable as to carcinogenicity to humans (Trichlorfon)

Genotoxicity in vitro - mouse - S. typhimurium

Host-mediated assay

Genotoxicity in vitro - Hamster - Lungs

Cytogenetic analysis

Genotoxicity in vitro - Hamster - Lungs

Sister chromatid exchange

Genotoxicity in vitro - Hamster - ovary

Sister chromatid exchange

Genotoxicity in vitro - Ames test - positive

Genotoxicity in vitro - mouse - lymphocyte  
Mutation in mammalian somatic cells.

Genotoxicity in vitro - mouse - Embryo  
Morphological transformation.

Genotoxicity in vitro - Human - leukocyte  
Cytogenetic analysis

Genotoxicity in vitro - Human - fibroblast  
Unscheduled DNA synthesis

Genotoxicity in vitro - Human - lymphocyte  
Sister chromatid exchange

Genotoxicity in vivo - mouse - Oral  
Cytogenetic analysis

Genotoxicity in vivo - mouse - Intraperitoneal  
Cytogenetic analysis

Genotoxicity in vivo - mouse - Intraperitoneal  
Dominant lethal test

Genotoxicity in vivo - mouse - Intraperitoneal  
Sister chromatid exchange

Genotoxicity in vivo - mouse - Intraperitoneal  
DNA damage

Developmental Toxicity - guinea pig - Oral  
Specific Developmental Abnormalities: Musculoskeletal system. Effects on Newborn: Stillbirth. Effects on Newborn: Other neonatal measures or effects.

Developmental Toxicity - guinea pig - Unreported  
Specific Developmental Abnormalities: Central nervous system.

Developmental Toxicity - Hamster - Oral  
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Developmental Toxicity - Hamster - Oral  
Effects on Embryo or Fetus: Fetal death.

Developmental Toxicity - Hamster - Oral  
Specific Developmental Abnormalities: Craniofacial (including nose and tongue). Specific Developmental Abnormalities: Musculoskeletal system. Specific Developmental Abnormalities: Homeostasis

Developmental Toxicity - mouse - Oral  
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death.

Developmental Toxicity - mouse - Oral  
Specific Developmental Abnormalities: Craniofacial (including nose and tongue).

Developmental Toxicity - mouse - Oral  
Specific Developmental Abnormalities: Urogenital system.

Developmental Toxicity - mouse - Intraperitoneal  
Effects on Embryo or Fetus: Fetal death.

Developmental Toxicity - mouse - Unreported  
Specific Developmental Abnormalities: Musculoskeletal system.

Reproductive toxicity - rabbit - Oral  
Effects on Fertility: Other measures of fertility Effects on Embryo or Fetus: Maternal-fetal exchange.

Reproductive toxicity - rat - Oral

Maternal Effects: Other effects. Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea). Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth).

#### Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Ingestion</b>	Harmful if swallowed.

#### Additional Information

RTECS: TA0700000

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

Bioaccumulation	Cyprinodon variegatus (sheepshead minnow) - 96 h Bioconcentration factor (BCF): 0,11
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### Ecotoxicity effects

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 0,114 mg/l - 96 h LC50 - Oncorhynchus mykiss (rainbow trout) - 0,7 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates.	EC50 - Daphnia magna (Water flea) - 0,00005 mg/l - 48 h

### Further information on ecology

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### ADR/RID

UN-Number: 3077 Class: 9 Packing group: III  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Trichlorfon)

### IMDG

UN-Number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Trichlorfon)  
Marine pollutant: Marine pollutant

### IATA

UN-Number: 3077 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substance, solid n.o.s. (Trichlorfon)

## 15. REGULATORY INFORMATION

## Labelling according to EC Directives

EC Label

Hazard symbols

Xn	Harmful
N	Dangerous for the environment

R-phrase(s)

R22	Harmful if swallowed.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S24	Avoid contact with skin.
S37	Wear suitable gloves.
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/ Safety data sheets.

## 16. OTHER INFORMATION

### Further information

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