

Supelco.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Version 6.8 Revision Date 06.09.2022 Print Date 06.03.2023 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product Number Brand Index-No.	Dieldrin <u>Dieldrin</u> 33491 Sigma-Aldrich 602-049-00-9 A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.	
	CAS-No.	60-57-1	
1.2	Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	Laboratory chemicals, Manufacture of substances	
1.3	Details of the supplier of	f the safety data sheet	
	Company	Sigma-Aldrich Chemie GmbH Eschenstrasse 5 D-82024 TAUFKIRCHEN	
	Fax	+49 (0)89 6513-1130 +49 (0)89 6513-1161 technischerservice@merckgroup.com	
1.4	Emergency telephone		
	Emergency Phone #	0800 181 7059 (CHEMTREC Deutschland) +49 (0)696 43508409 (CHEMTREC weltweit)	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 2), H300

Acute toxicity, Dermal (Category 1), H310 Carcinogenicity (Category 2), H351 Specific target organ toxicity - repeated exposure, Oral (Category 1), H372 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

Sigma-Aldrich- 33491

Page 1 of 10

The life science business of Merck operates as MilliporeSigma in the US and Canada



2.2 Label elements

Label elements			
Labelling according Regulation (EC) No 1272/2008			
Pictogram			
Signal Word	Danger		
Hazard statement(s) H300 + H310 H351 H372	Fatal if swallowed or in contact with skin. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure if swallowed.		
H410	Very toxic to aquatic life with long lasting effects.		
Precautionary statement(s) P202 P264	Do not handle until all safety precautions have been read and understood. Wash skin thoroughly after handling.		
P273 P280	Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.		
P301 + P310 P302 + P352 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/ doctor.		
Supplemental Hazard Statements	none		
Reduced Labeling (<= 12 Pictogram	25 ml)		
Signal Word	Danger		
Hazard statement(s) H351 H372	Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure if swallowed.		
H300 + H310	Fatal if swallowed or in contact with skin.		
Precautionary statement(s) P202	Do not handle until all safety precautions have been read and understood.		
P264 P280	Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.		
P301 + P310 P302 + P352 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/ doctor.		
Supplemental Hazard	none		

Supplemental Hazard none Statements

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Sigma-Aldrich- 33491

Page 2 of 10

The life science business of Merck operates as MilliporeSigma in the US and Canada



SECTION 3: Composition/information on ingredients

3.1	Substances Synonyms	: 1,2,3,4,10,10-Hexad epoxy-1,4:5,8-dime	chloro-1,4,4a,5,6,7,8,8a-octa thanonaphthalene	hydro-6,7-
	Formula Molecular weight CAS-No. EC-No. Index-No.	: C ₁₂ H ₈ Cl ₆ O : 380,91 g/mol : 60-57-1 : 200-484-5 : 602-049-00-9		
	Component		Classification	Concentration
	Dieldrin			
	CAS-No. EC-No. Index-No.	60-57-1 200-484-5 602-049-00-9	Acute Tox. 2; Acute Tox. 1; Carc. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H300, H310, H351, H372, H400, H410 M-Factor - Aquatic Acute: 100 M-Factor - Aquatic Chronic: 10	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Sigma-Aldrich- 33491

Page 3 of 10

The life science business of Merck operates as MilliporeSigma in the US and Canada



4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides Hydrogen chloride gas Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Work under hood. Do not inhale substance/mixture.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

Sigma-Aldrich- 33491

Page 4 of 10





7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class

Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

protective clothing

Sigma-Aldrich- 33491

The life science business of Merck operates as MilliporeSigma in the US and Canada



Page 5 of 10

Respiratory protection

required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P3

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties

a)	Physical state	solid
b)	Color	No data available
c)	Odor	No data available
d)	Melting point/freezing point	Melting point/range: 143 - 144 °C - lit.
e)	Initial boiling point and boiling range	No data available
f)	Flammability (solid, gas)	No data available
g)	Upper/lower flammability or explosive limits	No data available
h)	Flash point	Not applicable
i)	Autoignition temperature	No data available
j)	Decomposition temperature	No data available
k)	рН	No data available
I)	Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
m)	Water solubility	at 20 °C slightly soluble
n)	Partition coefficient: n-octanol/water	No data available
0)	Vapor pressure	No data available
p)	Density	No data available
	Relative density	No data available
q)	Relative vapor density	No data available

Sigma-Aldrich- 33491

The life science business of Merck operates as MilliporeSigma in the US and Canada



Page 6 of 10

- r) Particle No data available characteristics
- s) Explosive properties No data available
- t) Oxidizing properties none
- **9.2 Other safety information** No data available

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions Violent reactions possible with: Strong oxidizing agents

10.4 Conditions to avoid

no information available

- **10.5 Incompatible materials** No data available
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 38,3 mg/kg Remarks: (RTECS) Acute toxicity estimate Oral - 38,3 mg/kg (Calculation method) Inhalation: No data available Acute toxicity estimate Dermal - 5,1 mg/kg (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitization No data available

Germ cell mutagenicity

Sigma-Aldrich- 33491

The life science business of Merck operates as MilliporeSigma in the US and Canada

Page 7 of 10



No data available

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure

Ingestion - Causes damage to organs through prolonged or repeated exposure.Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Aspiration hazard

No data available

11.2 Additional Information

Endocrine disrupting properties

Product:

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

RTECS: IO1750000

Discomfort, Headache, Nausea, Vomiting, Dizziness, Tremors, tonic convulsions, clonic spasms, Coma., respiratory failure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish static test LC50 - Lepomis cyanellus - 0,011 mg/l - 96 h Remarks: (ECOTOX Database)

12.2 Persistence and degradability

No data available

- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties Product:

Assessment

: The substance/mixture does not contain components

Sigma-Aldrich- 33491

The life science business of Merck operates as MilliporeSigma in the US and Canada



Page 8 of 10

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods No data available

SECTION 14: Transport information		
14.1 UN number ADR/RID: 2811	IMDG: 2811	IATA: 2811
	RGANIC, N.O.S. (Dieldrin) RGANIC, N.O.S. (Dieldrin) nic, n.o.s. (Dieldrin)	
14.3 Transport hazard class(e ADR/RID: 6.1	s) IMDG: 6.1	IATA: 6.1
14.4 Packaging group ADR/RID: I	IMDG: I	IATA: I
14.5 Environmental hazards ADR/RID: no	IMDG Marine pollutant: yes	IATA: no
14.6 Special precautions for u	ser	

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Authorisations and/or restrictions on use

Regulation (EU) 2019/1021 on persistent organic : dieldrin pollutants (recast)

National legislation

Seveso III: Directive 2012/18/EU of the European : ACUTE TOXIC Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

: ENVIRONMENTAL HAZARDS

Sigma-Aldrich- 33491

The life science business of Merck operates as MilliporeSigma in the US and Canada



Page 9 of 10

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H300	Fatal if swallowed.
H300 + H310	Fatal if swallowed or in contact with skin.
H310	Fatal in contact with skin.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Copyright 2020 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Sigma-Aldrich- 33491

Page 10 of 10



