# SIGMA-ALDRICH

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SAFETY DATA SHEET

Version 4.4 Revision Date 11/17/2014 Print Date 11/10/2018

	RODUCT AND COMPANY	IDENTIFICATION		
1.1	Product identifiers Product name	<sup>:</sup> Dioctyl ether		
	Product Number Brand	: 249599 : Aldrich		
	CAS-No.	: 629-82-3		
1.2	.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 the safety data sheet				
	Company	: Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA		
	Telephone Fax	: +1 800-325-5832 : +1 800-325-5052		
1.4	.4 Emergency telephone number			
	Emergency Phone #	: +1-703-527-3887 (CHEMTREC)		
2. HA	ZARDS IDENTIFICATIO	N		
2.1	Classification of the su	ibstance or mixture		
	Not a hazardous substa	nce or mixture.		
2.2	GHS Label elements, in	ncluding precautionary statements		
	Not a hazardous substa	nce or mixture.		
2.3	Hazards not otherwise	classified (HNOC) or not covered by GHS - none		
3. CC	OMPOSITION/INFORMAT	ION ON INGREDIENTS		
3.1	<b>Substances</b> Synonyms	: Octyl ether		
	Formula	: C <sub>16</sub> H <sub>34</sub> O		
	Molecular weight	: 242.44 g/mol		
	CAS-No.	: 629-82-3 : 211-112-6		
	EC-No.			
	EC-No. No components need to	be disclosed according to the applicable regulations.		
4. FII				

### If inhaled

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

### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

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

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

### **5. FIREFIGHTING MEASURES**

5.1 Extinguishing media

**Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Carbon oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

### 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid breathing vapours, mist or gas. For personal protection see section 8.
- 6.2 Environmental precautions No special environmental precautions required.
- **6.3 Methods and materials for containment and cleaning up** Keep in suitable, closed containers for disposal.
- **6.4 Reference to other sections** For disposal see section 13.

### 7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling For precautions see section 2.2.
- **7.2** Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Combustible liquids
- **7.3** Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

**Components with workplace control parameters** Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

**Appropriate engineering controls** General industrial hygiene practice.

#### 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).

#### 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.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 30 min Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, 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 CE 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**

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

No special environmental precautions required.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: -7.6 °C (18.3 °F) - lit.
f)	Initial boiling point and boiling range	286 - 287 °C (547 - 549 °F) - lit.
g)	Flash point	110 °C (230 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The product is not flammable.
j)	Upper/lower flammability or explosive limits	No data available

k)	Vapour pressure	<= 0 hPa (<= 0 mmHg) at 20 °C (68 °F) - OECD Test Guideline 104
I)	Vapour density	No data available
m)	Relative density	0.806 g/cm3 at 25 °C (77 °F) - lit.
n)	Water solubility	0.1 g/l at 20 °C (68 °F) - OECD Test Guideline 105
o)	Partition coefficient: n- octanol/water	log Pow: > 5.7 at 23 °C (73 °F) -
p)	Auto-ignition temperature	200 °C (392 °F) - Tested according to Directive 92/69/EEC.
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
Oth	er safety information	
	Surface tension	56.5 mN/m at 26 °C (79 °F)

### **10. STABILITY AND REACTIVITY**

### 10.1 Reactivity

9.2

No data available

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available
- **10.5** Incompatible materials Strong oxidizing agents
- **10.6 Hazardous decomposition products** Other decomposition products - No data available In the event of fire: see section 5

### **11. TOXICOLOGICAL INFORMATION**

### 11.1 Information on toxicological effects

### Acute toxicity

LD50 Oral - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 401)

Inhalation: No data available

Dermal: No data available

No data available

#### **Skin corrosion/irritation** No data available

Serious eye damage/eye irritation No data available

**Respiratory or skin sensitisation** No data available

Germ cell mutagenicity No data available

#### Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### **Reproductive toxicity**

No data available

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

## Aspiration hazard

No data available

#### Additional Information RTECS: RH8800000

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

### **12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

Toxicity to fish	semi-static test LC50 - Danio rerio (zebra fish) - 3,200 mg/l  - 96 h (ISO 7346/1)
Toxicity to daphnia and other aquatic invertebrates	static test -Daphnia magna (Water flea) - > 100 mg/l -48 h (OECD Test Guideline 202)
Toxicity to algae	static test EC50 - Desmodesmus subspicatus (green algae) - 26.16 mg/l - 72 h (OECD Test Guideline 201)

#### 12.2 Persistence and degradability

Biodegradability Result: 94.2 % - Readily biodegradable. (OECD Test Guideline 301B)

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

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

No data available

#### **13. DISPOSAL CONSIDERATIONS**

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

### **14. TRANSPORT INFORMATION**

#### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

### **15. REGULATORY INFORMATION**

#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards No SARA Hazards

#### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know Components

Dioctyl ether	CAS-No. 629-82-3	Revision Date
New Jersey Right To Know Components		
	CAS-No.	Revision Date
Dioctyl ether	629-82-3	

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### **16. OTHER INFORMATION**

HMIS Rating	
Health hazard:	0
Chronic Health Hazard:	
Flammability:	1
Physical Hazard	0
NFPA Rating	
Health hazard:	0
Fire Hazard:	1
Reactivity Hazard:	0

#### **Further information**

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**Preparation Information** Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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