

Version 1.1 Revision Date: 11/09/2016

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name** : Dioctyl phthalate

Recommended use of the chemical and restrictions on use

Recommended use : Manufacture of plasticizers.

Plasticizer in the manufacture of PVC resins.

Manufacturer or supplier's details

Company : Nexeo Solutions, LLC.

Address 3 Waterway Square Place Suite 1000

The Woodlands, TX. 77380 United States of America

**Emergency telephone number:** 

Health North America: 1-855-NEXEO4U (1-855-639-3648) Health International: 1-855-NEXEO4U (1-855-639-3648) Transport North America: CHEMTREC (1-800-424-9300)

Additional Information: : Responsible Party: Product Safety Group

E-Mail: msds@nexeosolutions.com SDS Requests: 1-855-429-2661 SDS Requests Fax: 1-281-500-2370 Website: www.nexeosolutions.com

# **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Carcinogenicity : Category 2

Reproductive toxicity : Category 1B

**GHS Label element** 

Hazard pictograms :



Signal word : Danger

Hazard statements : H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

Precautionary statements : **Prevention:** 

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection. Response:

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

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Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance

### **Hazardous components**

CAS-No.	Chemical Name	Weight %
117-81-7	Dioctyl phthalate	90 - 100

Any Concentration shown as a range is due to batch variation.

**Synonyms** : bis(2-ethylhexyl)1,2-benzenedicarboxylic acid,

### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Notes to physician : Treat symptomatically

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#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray

Dry chemical

Carbon dioxide (CO2)

Foam

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire-

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod-

ucts

: Carbon oxides

Specific extinguishing meth-

ods

: Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if nec-

essary.

Use personal protective equipment.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emer-

gency procedures

Personal precautions, protec- : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

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Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
117-81-7	Dioctyl phthalate	TWA	5 mg/m3	ACGIH
		TWA	5 mg/m3	NIOSH REL
		ST	10 mg/m3	NIOSH REL
		TWA	5 mg/m3	OSHA Z-1
		TWA	5 mg/m3	OSHA P0
		STEL	10 mg/m3	OSHA P0

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

In the case of vapour formation use a respirator with an ap-

proved filter.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

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Colour : colourless

Odour : slight, mild

Odour Threshold : No data available

pH : No data available

Freezing Point (Freezing

Point)

: -50 °C (-58 °F)

Boiling Point (Boiling

point/boiling range)

: 384 °C (723 °F)

Flash point : 201 °C (394 °F)

Method: closed cup

Evaporation rate : not determined

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : > 1.2 mmHg @ 20 °C (68 °F)

Relative vapour density : 13.5 @ 20 - 25 °C (68 - 77 °F)

(Air = 1.0)

Relative density : 0.985 @ 20 °C (68 °F)

Reference substance: (water = 1)

Density : 0.9622 g/cm3

Solubility(ies)

Water solubility : 0.1 - 0.285 g/l soluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: Pow: 75,858

log Pow: 4.88 - 7.6

Auto-ignition temperature : 370 - 382 °C

Thermal decomposition : > 393 °C

Viscosity

Viscosity, dynamic : 56.6 mPa.s @ 25 °C (77 °F)

Viscosity, kinematic : 57.46 mm2/s @ 25 °C (77 °F)

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

Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

: No hazards to be specially mentioned.

Conditions to avoid : Keep away from heat, flame, sparks and other ignition

sources.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: carbon dioxide and carbon monoxide

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

### Carcinogenicity

**Product:** 

Carcinogenicity - Assess-

ment

: Suspected human carcinogens

IARC Group 2B: Possibly carcinogenic to humans

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OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

NTP Reasonably anticipated to be a human carcinogen

117-81-7 Dioctyl phthalate

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by ACGIH.

### Reproductive toxicity

**Components:** 

117-81-7:

Effects on fertility : Test Type: multigeneration study

Species: Rat, male and female

Application Route: Oral Dose: 1.5 - 10,000 ppm

General Toxicity - Parent: NOAEL: 300 ppm

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General Toxicity F1: NOAEL: 300 ppm

Fertility: NOAEL: 1,000 ppm

Early Embryonic Development: NOAEL: 100 ppm Symptoms: Reduced fertility Testicular effects

Result: Embryotoxic effects and adverse effects on the off-

spring were detected.

Effects on foetal develop-

ment

Species: Rat

Application Route: Oral

Dose: 0, 357, 666, 586, 1055 mg/kg Duration of Single Treatment: 21 d

General Toxicity Maternal: NOAEL: 357 mg/kg body weight Teratogenicity: NOAEL: >= 1,055 mg/kg body weight Developmental Toxicity: NOAEL: 357 mg/kg body weight Symptoms: Maternal toxicity, Reduced number of viable fe-

tuses, Preimplantation loss

Result: Embryotoxic effects and adverse effects on the off-

spring were detected.

Reproductive toxicity - As-

sessment

Clear evidence of adverse effects on sexual function and fertil-

ity, based on animal experiments.

Teratogenicity - Assessment : Clear evidence of adverse effects on development, based on

animal experiments.

### **Further information**

**Product:** 

Remarks: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

No data available

Persistence and degradability

No data available

**Bioaccumulative potential** 

No data available

Mobility in soil

No data available

Other adverse effects

**Product:** 

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

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tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

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

**Disposal methods** 

Waste from residues : Dispose of in accordance with all applicable local, state and

federal regulations.

For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

# **SECTION 14. TRANSPORT INFORMATION**

### **DOT (Department of Transportation)**:

UN3082, Environmentally hazardous substances, liquid, n.o.s., (BIS(2-ETHYLHEXYL) PHTHALATE), 9, III

IATA (International Air Transport Association): Not regulated as a dangerous good

IMDG-Code: Not regulated as a dangerous good

Special Notes: : This material is shipped as a Class 9, Packing Group III when

each package meets or exceeds the reportable quantity, oth-

erwise it may be shipped as not regulated.

### **SECTION 15. REGULATORY INFORMATION**

WHMIS Classification : D2A: Very Toxic Material Causing Other Toxic Effects

### **EPCRA - Emergency Planning and Community Right-to-Know Act**

# **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Dioctyl phthalate	117-81-7	100	100

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#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Chronic (Delayed) Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting re-

quirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

117-81-7 Dioctyl phthalate

#### Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

117-81-7 Dioctyl phthalate

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### **US State Regulations**

#### Massachusetts Right To Know

117-81-7 Dioctyl phthalate 90 - 100 %

Pennsylvania Right To Know

117-81-7 Dioctyl phthalate 90 - 100 %

**New Jersey Right To Know** 

117-81-7 Dioctyl phthalate 90 - 100 %

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.

117-81-7 Dioctyl phthalate

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive

harm.

117-81-7 Dioctyl phthalate

#### The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

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NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

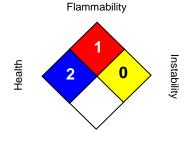
KECI: On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

#### **SECTION16. OTHER INFORMATION**

#### NFPA:



Special hazard.

#### HMIS III:

HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO™ Solutions EHS Product Safety Department (1-855-429-2661) MSDS@nexeosolutions.com.

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**Legacy SDS:** : R0000784

### Material number:

16114352, 16041615, 16040040, 16010403, 641124, 554178, 127695, 104226, 16062074, 16020449, 546066, 546065, 546064, 87234, 69100, 85487, 71468, 103619, 52729, 53999, 87235, 52719, 53996, 88281, 53993, 104227, 20180, 20179, 20178, 20177

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Gov-	LD50	Lethal Dose 50%
	ernment Industrial Hygienists		
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effect Level
	Substances		
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency

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	List		
NDSL	Canada, Non-Domestic Sub- stances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50		Lethal Conce	entration 50%

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