

No. 1907/2006 (REACH) Printed 19.03.2020

Revision 19.03.2020 (GB) Version 4.9

Nonalactone delta

20945

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

1.1. Product identifier

Name of product

Nonalactone delta
Prod-Nr 20945

Name of substance 6-butyltetrahydro-2H-pyran-2-one

**EC No** 221-974-5

REACH registration number 01-2120789079-37-\*\*\*\*

**CAS No** 3301-94-8

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended intended purpose(s)

used in fragrances and flavors

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor A.C.S. International GmbH

Im Wesertal 5, D-37671 Höxter - Stahle

Phone +49 (0)5531 9906142, Fax +49 (0)5531 9906 196

E-Mail regulatory@acsint.com Internet www.acsint.com

Advice GIZ-Nord, Göttingen, Germany

1.4. Emergency telephone number

**Emergency advice** 

Phone +49 551 19240

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

No information available.

## 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

No information available.

#### 2.3. Other hazards

No information available.

# ! SECTION 3: Composition/ information on ingredients

3.1. Substances

CAS No 3301-94-8 6-butyltetrahydro-2H-pyran-2-one

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#### 3.2. Mixtures

not applicable



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#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

Remove contaminated soaked clothing immediately.

#### In case of inhalation

In case of inhalation remove the casualty into fresh air and seek medical advice.

#### In case of skin contact

In case of contact with skin wash off immediately with soap and water.

Remove contaminated clothing immediately, even underwear and shoes.

Seek medical advice immediately.

#### In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

#### In case of ingestion

Turn a vomiting person lying on his back onto his side.

Do not induce vomiting.

Rinse out mouth thoroughly with water.

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No information available.

#### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media Suitable extinguishing media

Foam

Dry fire-extinguishing substance

Carbon dioxide

# Unsuitable extinguishing media

Full water jet

# 5.2. Special hazards arising from the substance or mixture

Carbon monoxide (CO)

Carbon dioxide (CO2)

#### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Do not inhale explosion and/or combustion gases.

#### Additional information

Cool endangered containers with water spray jet.



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#### **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation. Remove persons to safety.

Use personal protective clothing.

Keep away sources of ignition.

#### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

#### 6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, sawdust, general-purpose binder).

After taking up the material dispose according to regulation.

#### 6.4. Reference to other sections

No information available.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Take the usual precautions when handling with chemicals.

# General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

#### Hygiene measures

At work do not eat, drink and smoke.

Remove soaked clothing immediately.

Wash hands before breaks and after work.

# Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

# 7.2. Conditions for safe storage, including any incompatibilities

#### Advice on storage compatibility

Do not store together with oxidizing agents.

#### Further information on storage conditions

Keep container tightly closed.

Protect from heat and direct solar radiation.

Store at cool and aired place.

#### 7.3. Specific end use(s)

No information available.



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# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### **Additional advice**

not determined

## 8.2. Exposure controls

#### **Respiratory protection**

In case of insufficient ventilation or long-term effect use breathing apparatus.

## **Hand protection**

chemical-resistant gloves

#### Eye protection

safety goggles with side protection

#### Other protection measures

Light protective clothing.

#### Limitation and surveillance of the environment

not determined

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

AppearanceColourOdourliquidcolorless to pale yellowCoconut

# Odour threshold

not determined

# Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
Acid number	< 3 mgKOH/g				
boiling point	250 °C		760 mbar		
melting point				not determined	
Flash point	> 100 °C			closed cup	
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature	not determined				



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	Value	Temperature	at	Method	Remark
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	0,981 - 0,986 g/cm3	20 °C			
Vapour density	not determined				
Solubility in water					insoluble
Solubility/other	not determined				
Partition coefficient noctanol/water (log PO/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				
Oxidising properties No information available.					
Explosive properties  No information available.					
<b>9.2. Other information</b> No information available.					

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

No information available.

#### 10.3. Possibility of hazardous reactions

No information available.

# 10.4. Conditions to avoid

Evolution of heat.

# 10.5. Incompatible materials

# Substances to avoid

Reactions with strong oxidising agents.

# 10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.



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#### Thermal decomposition

Remark Stable at ambient temperature.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

# Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral		rabbit	not determined	
LD50 acute dermal		rat	not determined	
Skin irritation	non-irritant	human		
Eye irritation		rabbit eye	not determined	
Skin sensitization	non-sensitizing	human		

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

No information available.

#### 12.2. Persistence and degradability

No information available.

# 12.3. Bioaccumulative potential

No information available.

#### 12.4. Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

No information available.

#### 12.6. Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Recommendations for the product

Remove in accordance with local official regulations.

#### Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken fot reuse.

Packaging that cannot be cleaned should be disposed of like the product.



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# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-

# 14.6. Special precautions for user

No information available.

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

#### Land and inland navigation transport ADR/RID

Not classified.

#### Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

# **SECTION 15: Regulatory information**

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

**National regulations** 

Water hazard class

Decree for case of interference/remarks

#### 15.2. Chemical Safety Assessment

No information available.

#### **SECTION 16: Other information**

#### Training advice

no

#### Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

no

#### **Further information**

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 3.4



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Sources of key data used Listed in EINECS and TSCA