

# Noradrenaline impurity E

## Bileog Sonraí Sábháilteachta

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Dáta eisiúna: 24/08/2023 Dáta athbheithne: 17/10/2024 Supersedes version of: 24/08/2023 Leagan: 2.0

### CUID 1: Sainaitheant na substainte / an mheascáin agus na cuideachta / an ghnóthais

#### 1.1. Sainaitheantóir táirge

Foirm an táirge	: Substance
Substance name	: Noradrenaline impurity E
Chemical name	: 2-chloro-3',4'-dihydroxyacetophenone
Uimh. CE	: 202-754-8
Uimh. CAS	: 99-40-1
Cód an táirge	: 201700029

#### 1.2. Úsáidí ábhartha sainaitheanta na substainte nó an mheascáin agus úsáidí atá dímholta

##### Úsáidí sainaitheanta ábhartha

Úsáid na substainte / an mheascáin	: Scientific research and development Technical testing and analysis For professional use only
Function or use category	: Laboratory chemicals

##### Úsáidí dímholta

Restrictions on use	: Not for food, drug or home use
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#### 1.3. Sonraí um sholáthraí na bileoige sonraí sábháilteachta

European Directorate for the Quality of Medicines & Healthcare  
EDQM, Council of Europe  
7, Allée Kastner, CS30026  
F 67081 Strasbourg  
France  
T +33(0)388412035, F +33(0)388412771  
[sds@edqm.eu](mailto:sds@edqm.eu), [www.edqm.eu](http://www.edqm.eu)

#### 1.4. Uimhir ghutháin éigeandála

Uimhir éigeandála	: +33(0)390215608
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### CUID 2: Aithint guaiseacha

#### 2.1. Aicmiú na substainte nó an mheascáin

##### Aicme de réir Rialachán (CE) Uimh. 1272/2008 [CLP]

Géarthocsaineacht (bhéil), Catagóir 3	H301
Guaiseach don timpeallacht uisceach – Guais Ainsealach, Catagóir 3	H412

Full text of H- and EUH-statements: see section 16

##### Éifeachtaí díobhálacha fisiceimiceacha, um shláinte an duine agus um an comhshaoil

Tocsaineach má shlogtar. Díobhálach don saol uisceach, le héifeachtaí fadtréimhseacha.

#### 2.2. Eilimintí lipéid

##### Lipéadú de réir Rialachán (CE) Uimh. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS06

Signal word (CLP)	: Contúirt
Hazard statements (CLP)	: H301 - Tocsaineach má shlogtar. H412 - Díobhálach don saol uisceach, le héifeachtaí fadtréimhseacha.

# Noradrenaline impurity E

## Bileog Sonraí Sábhálteachta

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Ráitis réamhchúraim (CLP)

- : P264 - Nigh ... go lánchúramach tar éis láimhsithe.
- P270 - Ná hith, ná hól agus ná caitear tobac agus an táirge seo á úsáid.
- P273 - Ná scaoiltear amach sa chomhshaoil.
- P301+P310 - MÁ SHLOGTAR: Cuir glao láithreach ar IONAD NIMHE nó ar dhochtúir.
- P321 - Cóir liachta ar leith (féach threoir gharchabhrach forlíontach ar an lipéad seo).
- P330 - Sruthlaítear an béal.
- P405 - Stóráil faoi ghlas.
- P501 - Diúscair an t-ábhar/an coimeádán i ...

Labelling according to: Exemption for inner packaging where the contents do not exceed 10ml.

Hazard pictograms (CLP)



GHS06

### 2.3. Guaiseacha eile

Faisnéis eile

- : Warning - substance not yet tested completely.

## CUID 3: Comhdhéanamh / faisnéis faoi chomhábhair

### 3.1. Substaint

Ainm	Sainaitheantóir táirge		Aicme de réir Rialachán (CE) Uimh. 1272/2008 [CLP]
2-chloro-3',4'-dihydroxyacetophenone	Uimh. CAS: 99-40-1 Uimh. CE: 202-754-8	≤ 100	Acute Tox. 3 (Bhéil), H301 (ATE=226.6 mg/kg meáchan coirp) Aquatic Chronic 3, H412

Full text of H- and EUH-statements: see section 16

## CUID 4: Bearta garchabhrach

### 4.1. Cur síos ar na bearta garchabhrach

- First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.
- Bearta garchabhrach tar éis ionanáilaithe : Tabhair an duine amach faoin aer úr agus coinnigh é i riocht ina bhféadfadh sé anáil a tharraingt go réidh. Allow the victim to rest. If the person feels unwell : Faigh comhairle/cúram liachta.
- Bearta garchabhrach tar éis teagmhála leis an gcraiceann : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- Bearta garchabhrach tar éis teagmhála leis an tsúil : Rinse with water while holding the eyes wide open. Obtain medical attention if pain, blinking or redness persists.
- Bearta garchabhrach tar éis iontógála : Rinse mouth out with water (only if the person is conscious). Ná tabhair aon rud ó bhéal do dhuine atá gan aithne. Cuir glao láithreach ar IONAD NIMHE/ar dhochtúir.

### 4.2. Na siomptóim agus na héifeachtaí is tábhachtaí, idir shiomptóim ghéarmhíochaine agus shiomptóim mhoillithe

Níl aon fhaisnéis bhreise ar fáil

### 4.3. Léiriú ar aon chóir leighis láithreach agus aon chóir speisialta atá ag teastáil

Níl aon fhaisnéis bhreise ar fáil

## CUID 5: Bearta comhrac dóiteáin

### 5.1. Meáin múchta

- Meáin oiriúnacha um múchadh : Use extinguishing media appropriate for surrounding fire. Dé-ocsaíd charbóin. Water spray. Dry powder. Extinguishing blanket.
- Meáin mhí-oiriúnacha um múchadh : Do not use a heavy water stream.

# Noradrenaline impurity E

## Bileog Sonraí Sábhálteachta

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 5.2. Guaiseacha speisialta a eascraíonn as an tsubstaint nó as an meascán

Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. Toxic fumes may be released.

### 5.3. Comhairle do chomhraiceoirí dóiteáin

Firefighting instructions : Prevent fire fighting water from entering the environment.  
Cosaint i rith comhrac dóiteáin : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## CUID 6: Bearta i gcás scaoileadh de thaisme

### 6.1. Réamhchúirimí pearsanta, trealamh cosanta agus nósanna imeachta éigeandála

Bearta ginearálta : Avoid contact with skin, eyes and clothing.

#### Do phearsanra neamh-éigeandála

Emergency procedures : Evacuate unnecessary personnel.

#### D'fhreagróirí éigeandála

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Réamhchúirimí comhshaoil

Ná scaoiltear amach sa chomhshaoil. Prevent entry to sewers and public waters.

### 6.3. Modhanna agus ábhar maidir le coimeád agus glanadh suas

I gcomhair srianta : Absorb with an inert material and place in an appropriate waste disposal container.  
Modhanna um ghlanadh : Clean contaminated surfaces with an excess of water. Clean with the help of detergents.

### 6.4. Tagairt do chodanna eile

See Section 13 for disposal information.

## CUID 7: Láimhseáil agus stóráil

### 7.1. Réamhchúirimí maidir le láimhseáil shábháilte

Réamhchúirimí maidir le láimhseáil shábháilte : Seachain gach nochtadh gan ghá. Ensure good ventilation of the work station.  
Bearta sláinteachais : Ná hith, ná hól agus ná caitear tobac agus an táirge seo á úsáid. Níor chóir éadaí éillithe oibre a ligean amach as an láthair oibre. Wash hands before work breaks and after finishing work.

### 7.2. Coinníollacha stórála sábháilte, lena n-áirítear aon neamhlúí

Coinníollacha stórála : Stóráil in áit dhea-aeráilte. Coimeád an coimeádán dúnta go docht. Keep away from heat and direct sunlight.  
Packaging materials : Keep in original containers.

### 7.3. Úsáid shonrach deiridh nó úsáid sonracha deiridh

Níl aon fhaisnéis bhreise ar fáil

## CUID 8: Rialuithe nochtta / cosaint phearsanta

### 8.1. Paraiméadair rialaithe

Níl aon fhaisnéis bhreise ar fáil

# Noradrenaline impurity E

## Bileog Sonraí Sábháilteachta

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 8.2. Rialuithe nochtá

#### Appropriate engineering controls

##### Rialuithe iomchuí innealtóireachta:

Ensure good ventilation of the work station. Both local exhaust and general room ventilation are usually required. Material should be handled in a laboratory hood whenever possible.

#### Personal protection equipment

##### Eye and face protection

###### Cosaint súl:

Wear eye protection. Safety glasses with side shields. (EN 166)

##### Skin protection

###### Cosaint chraicinn agus choirp:

Wear suitable protective clothing. Laboratory use : Lab coat. (EN 13034)

###### Cosaint lámha:

Caith lámhainní oiriúnacha. Chemically resistant protective gloves. (EN 374)

#### Respiratory protection

###### Cosaint riospráide:

In case of dust formation use respirator with filter: P3

## GUID 9: Airíonna fisiceacha agus ceimiceacha

### 9.1. Faisnéis bunaithe ar bhunairíonna fisiceacha agus ceimiceacha

Staid fhisiceach	: Solid
Dath	: Not available
Dealramh	: Powder.
Molecular mass	: 186.59 g/mol
Boladh	: Not available
Tairseach bolaidh	: Not available
Leáphointe	: Not available
Reophointe	: Not available
Fiuchphointe	: Not available
Inadhainteacht	: Not available
Lower explosion limit	: Ní bhaineann le hábhar
Upper explosion limit	: Ní bhaineann le hábhar
Splancphointe	: Ní bhaineann le hábhar
Teocht uath-adhainte	: Ní bhaineann le hábhar
Teocht dianscaoilte	: Not available
pH	: Not available
pH solution	: Not available
Slaodacht, cinéimiteach	: Ní bhaineann le hábhar
Intuaslagthacht	: Uisce: < 0.01 g/l
Partition coefficient n-octanol/water (Log Kow)	: Not available
Galbhrú	: Not available
Vapour pressure at 50°C	: Not available
Dlús	: Not available
Dlús coibhneasta	: Not available
Galdlús coibhneasta ag 20°C	: Ní bhaineann le hábhar
Particle size	: Not available

### 9.2. Faisnéis eile

Níl aon fhaisnéis bhreise ar fáil

# Noradrenaline impurity E

## Bileog Sonraí Sábhálteachta

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### CUID 10: Cobhsaíocht agus imoibríocht

#### 10.1. Imoibríocht

Níl aon fhaisnéis bhreise ar fáil

#### 10.2. Cobhsaíocht cheimiceach

Níl aon fhaisnéis bhreise ar fáil

#### 10.3. D'fhéadfadh a bheith ina chúis le fhrithghníomhartha guaiseacha

Níl aon fhaisnéis bhreise ar fáil

#### 10.4. Coinníollacha lena seachaint

Níl aon fhaisnéis bhreise ar fáil

#### 10.5. Ábhair neamh-chomhoiriúnacha

Níl aon fhaisnéis bhreise ar fáil

#### 10.6. Táirgí dian-scaoilte guaiseacha

Níl aon fhaisnéis bhreise ar fáil

### CUID 11: Faisnéis thocsaineolaíoch

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Tocsaineach má shlogtar.  
Acute toxicity (dermal) : ()  
Acute toxicity (inhalation) : ()

#### 2-chloro-3',4'-dihydroxyacetophenone (99-40-1)

LD50 ó bhéal francach	226.6 mg/kg
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Creimeadh/greannú craicinn : ()  
Damáiste/greannú tromchúiseach súl : ()  
Íoghrú riospráide nó craicinn : ()  
Só-ghineacht ghaiméite : ()  
Carcanaigineacht : ()  
Tocsaineacht atáirgthe : ()  
Tocsaineacht sain-spriocorgáin (aon nochtadh amháin) : ()  
Tocsaineacht sain-spriocorgáin (ilnochtadh) : ()  
Guais asúite : ()

#### 11.2. Information on other hazards

Níl aon fhaisnéis bhreise ar fáil

### CUID 12: Faisnéis éiceolaíochta

#### 12.1. Tocsaineacht

Guaiseach don chomhshaol uisceach, : (Bunaithe ar shonraí atá ar fáil, ní chomhlíontar na critéir aicmithe.)  
ghearrthéarmach (géarghuais)  
Guaiseach don chomhshaol uisceach, fadtéarmach : Díobhálach don saol uisceach, le héifeachtaí fadtréimhseacha.  
(guais ainsealach)

#### 2-chloro-3',4'-dihydroxyacetophenone (99-40-1)

LC50 - Fish [1]	14.8 mg/l hoursHoursDanio rerio(OECD 203 method)Brachydanio rerio (zebra-fish)
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# Noradrenaline impurity E

## Bileog Sonraí Sábháilteachta

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 12.2. Inchoimeádachas agus díghrádaitheacht

#### 2-chloro-3',4'-dihydroxyacetophenone (99-40-1)

Inchoimeádachas agus díghrádaitheacht Not rapidly degradable

### 12.3. Acmhainneacht bhithbhailitheach

Níl aon fhaisnéis bhreise ar fáil

### 12.4. Soghluaisteacht san ithir

Níl aon fhaisnéis bhreise ar fáil

### 12.5. Torthaí an mheasúnaithe PBT agus vPvB

Níl aon fhaisnéis bhreise ar fáil

### 12.6. Endocrine disrupting properties

Níl aon fhaisnéis bhreise ar fáil

### 12.7. Éifeachtaí díobhálacha eile

Níl aon fhaisnéis bhreise ar fáil




## CUID 13: Breithníthe diúscartha

### 13.1. Modhanna cóireála dramhaíola

Níl aon fhaisnéis bhreise ar fáil

## CUID 14: Faisnéis Iompair

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
<b>14.1. UN number or ID number</b>		
UN 2811	UN 2811	UN 2811
<b>14.2. Ainm seolta ceart UN</b>		
TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.	Toxic solid, organic, n.o.s.
<b>Transport document description</b>		
UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, II, (D/E)	UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, II	UN 2811 Toxic solid, organic, n.o.s., 6.1, III
<b>14.3. Aicme nó aicmí guaise iompair</b>		
6.1	6.1	6.1
		
<b>14.4. Grúpa pacála</b>		
II	II	III

# Noradrenaline impurity E

## Bileog Sonraí Sábháilteachta

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	IATA
<b>14.5. Guaiseacha comhshaoil</b>		
Contúirteach don chomhshaoil: No	Contúirteach don chomhshaoil: No Truailleán mara: No EmS-No. (Fire): F-A EmS-No. (Spillage): S-A	Contúirteach don chomhshaoil: No

### 14.6. Réamhchúraimí speisialta don úsáideoir

#### Iompar ar talamh

- Classification code (ADR) : T2
- Special provisions (ADR) : 274, 614
- Limited quantities (ADR) : 500g
- Excepted quantities (ADR) : E4
- Packing instructions (ADR) : P002, IBC08
- Packing provisions (ADR) : B4
- Mixed packing provisions (ADR) : MP10
- Portable tank and bulk container instructions (ADR) : T3
- Portable tank and bulk container special provisions (ADR) : TP33
- Tank code (ADR) : SGAH, L4BH
- Tank special provisions (ADR) : TU15, TE19
- Vehicle for tank carriage : AT
- Transport category (ADR) : 2
- Special provisions for carriage - Packages (ADR) : V11
- Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28
- Special provisions for carriage - Operation (ADR) : S9, S19
- Hazard identification number (Kemler No.) : 60
- Orange plates :



- Tunnel restriction code (ADR) : D/E

#### Iompar ar muir

- Special provision (IMDG) : 274
- Limited quantities (IMDG) : 500 g
- Excepted quantities (IMDG) : E4
- Packing instructions (IMDG) : P002
- IBC packing instructions (IMDG) : IBC08
- IBC special provisions (IMDG) : B21, B4
- Tank instructions (IMDG) : T3
- Tank special provisions (IMDG) : TP33
- Stowage category (IMDG) : B
- Properties and observations (IMDG) : Toxic if swallowed, by skin contact or by inhalation.
- MFAG-No : 154

#### Aeriompar

- PCA Excepted quantities (IATA) : E1
- PCA Limited quantities (IATA) : Y645
- PCA limited quantity max net quantity (IATA) : 10kg
- PCA packing instructions (IATA) : 670
- PCA max net quantity (IATA) : 100kg
- CAO packing instructions (IATA) : 677
- CAO max net quantity (IATA) : 200kg
- Special provisions (IATA) : A3, A5
- ERG code (IATA) : 6L

### 14.7. Maritime transport in bulk according to IMO instruments

Ní bhaineann le hábhar

# Noradrenaline impurity E

## Bileog Sonraí Sábhálteachta

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### CUID 15: Faisnéis rialála

#### 15.1. Rialacháin/reachtaíocht sábhálteacht, sláinte agus chomhshaoil a bhaineann go sonrach leis an tsubstaint nó an meascán

##### Rialacháin de chuid an AE

##### REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

##### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

##### Council Regulation (EC) for the control of dual-use items

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.2. Measúnú sábhálteachta ceimicí

Níl aon fhaisnéis bhreise ar fáil

### CUID 16: Faisnéis eile

Léiriú ar na hathruithe		
Cuid	Changed item	Comments
	Dáta athbhreithnithe	Added
	Supersedes version of	Added
1.1	Uimh. CAS	Added
1.1	Uimh. CE	Added
1.2	Príomhchatagóir úsáide	Removed
1.2	Restrictions on use	Modified
1.2	Úsáid na substainte / an mheascáin	Modified
2.1	Éifeachtaí díobhálacha fisiciceimiceacha, um shláinte an duine agus um an comhshaoil	Modified
2.3	Faisnéis eile	Added
4.1	Bearta garchabhrach tar éis teagmhála leis an tsúil	Modified
4.1	Bearta garchabhrach tar éis ionánálaithe	Modified
4.1	Bearta garchabhrach tar éis iontógála	Modified
4.1	Bearta garchabhrach tar éis teagmhála leis an gcráiceann	Modified
4.1	First-aid measures general	Added



# Noradrenaline impurity E

## Bileog Sonraí Sábhálteachta

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Léiriú ar na hathruithe		
Cuid	Changed item	Comments
4.2	Siomptóim/gortuithe tar éis teagmhála leis an gcráiceann	Removed
4.2	Siomptóim/gortuithe tar éis ionanáilaithe	Removed
4.2	Siomptóim/gortuithe tar éis teagmhála leis an tsúil	Removed
4.3	Other medical advice or treatment	Removed
5.1	Meáin mhí-oiriúnacha um múchadh	Added
5.1	Meáin oiriúnacha um múchadh	Modified
5.2	Guais dóiteáin	Removed
5.2	Hazardous decomposition products in case of fire	Added
5.3	Cosaint i rith comhrac dóiteáin	Added
5.3	Firefighting instructions	Modified
6.1	Bearta ginearálta	Modified
6.1	Protective equipment	Added
6.1	Emergency procedures	Added
6.2	Réamhchúraimí comhshaoil	Added
6.3	Modhanna um ghlanadh	Modified
6.3	I gcomhair srianta	Added
6.4	Reference to other sections (8, 13)	Added
7.1	Additional hazards when processed	Removed
7.1	Réamhchúraimí maidir le láimhseáil shábháilte	Modified
7.1	Bearta sláinteachais	Modified
7.2	Technical measures	Removed
7.2	Coinníollacha stórála	Modified
7.2	Packaging materials	Added
7.3	Specific end uses	Removed
8.2	Rialuithe iomchuí innealtóireachta	Modified
8.2	Cosaint chraicinn agus choirp	Modified
8.2	Cosaint súl	Modified
8.2	Cosaint lámha	Modified
8.2	Cosaint riospráide	Modified
9	Solubility in water	Modified
9	Molecular mass	Added
9	Boladh	Removed
10.1	Imoibríocht	Removed
10.5	Ábhair neamh-chomhoiriúnacha	Removed
10.6	Táirgí dianscaoilte guaiseacha	Removed

# Noradrenaline impurity E

## Bileog Sonraí Sábháilteachta

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Léiriú ar na hathruithe		
Cuid	Changed item	Comments
12.1	Éiceolaíocht - ginearálta	Removed
12.2	Biodegradation	Removed
13.1	Product/Packaging disposal recommendations	Removed
13.1	Regional waste regulation	Removed

Full text of H- and EUH-statements:	
Acute Tox. 3 (Bhéil)	Géarthocsaineacht (bhéil), Catagóir 3
Aquatic Chronic 3	Guaiseach don timpeallacht uisceach – Guais Ainsealach, Catagóir 3
H301	Tocsaineach má shlogtar.
H412	Díobhálach don saol uisceach, le héifeachtaí fadtréimhseacha.

Safety Data Sheet (SDS), EU

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