

## Justification for the selection of a candidate CoRAP substance

<b>Substance Name (Public Name):</b>	2,2'-methyliminodiethanol
<b>Chemical Group:</b>	Organic
<b>EC Number:</b>	203-312-7
<b>CAS Number:</b>	105-59-9
<b>Submitted by:</b>	UK CA
<b>Published:</b>	20/03/2013

### NOTE

This document has been prepared by the evaluating Member State given in the CoRAP update.

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## 1 IDENTITY OF THE SUBSTANCE

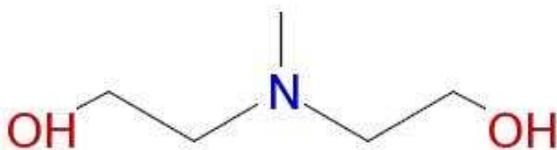
### 1.1 Name and other identifiers of the substance

**Table 1: Substance identity**

<b>Public Name:</b>	2,2'-methyliminodiethanol
<b>EC number:</b>	203-312-7
<b>EC name:</b>	2,2'-methyliminodiethanol
<b>CAS number (in the EC inventory):</b>	105-59-9
<b>CAS number:</b>	105-59-9
<b>CAS name:</b>	Ethanol, 2,2'(methylimino)bis-
<b>IUPAC name:</b>	2,2'-(methylimino)diethanol
<b>Index number in Annex VI of the CLP Regulation</b>	603-079-00-5
<b>Molecular formula:</b>	C <sub>5</sub> H <sub>13</sub> NO <sub>2</sub>
<b>Molecular weight or molecular weight range:</b>	119.16
<b>Synonyms:</b>	<p>Methyldiethanolamin  Ethanol, 2,2'-(methylimino)di- (6CI, 8CI)  Methyldiethanolamine  N-Methyldiethanolamine  N-Methyliminodiethanol  2,2'-(Methylimino)diethanol  Bis(2-hydroxyethyl) methyl amine  N,N-Bis(2-hydroxyethyl)methylamine  Methylbis(2-hydroxyethyl)amine  Methyliminodiethanol  Diethanolmethylamine  N-Methylaminodiglycol  Eve, Amietol M12, N-METHYLDIETHANOLAMINE (MDEA)</p>

**Type of substance**     Mono-constituent     Multi-constituent     UVCB

**Structural formula:**



## 2 CLASSIFICATION AND LABELLING

### 2.1 Harmonised Classification in Annex VI of the CLP

Index number: 603-079-00-5

Eye Irrit. 2; H319: Causes serious eye irritation.

DSD:

Xi; R36 Irritating to eyes

### 2.2 Proposal for Harmonised Classification in Annex VI of the CLP

Not applicable

### 2.3 Self classification

In addition to the harmonised classification, the following classifications for other endpoint(s) are notified in the Classification and Labelling Inventory:

STOT SE 3; H335: May cause respiratory irritation

Acute Tox. 4; H302: Harmful if swallowed

Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects

### 3 JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CoRAP SUBSTANCE

#### 3.1 Legal basis for the proposal

- Article 44(1) (refined prioritisation criteria for substance evaluation)
- Article 45(5) (Member State priority)

#### 3.2 Grounds for concern

<input checked="" type="checkbox"/> (Suspected) CMR	<input checked="" type="checkbox"/> Wide dispersive use	<input type="checkbox"/> Cumulative exposure
<input type="checkbox"/> (Suspected) Sensitiser	<input type="checkbox"/> Consumer use	<input checked="" type="checkbox"/> High RCR
<input type="checkbox"/> (Suspected) PBT	<input type="checkbox"/> Exposure of sensitive populations	<input checked="" type="checkbox"/> Aggregated tonnage
<input type="checkbox"/> Suspected endocrine disruptor	<input checked="" type="checkbox"/> Other (provide further details below)	

Exposure - DNEL for long-term inhalation exposure based on route-to-route extrapolation from dermal data. Further assessment is warranted to confirm that the DNEL provides an adequate basis to assess local and systemic effects from long-term inhalation exposure.

Human Health - A 2-generation study has been read-across from another substance. Reproductive toxicity was observed at the highest dose of 1000 mg/kg bw/day.

An oral screening study is also available for the other substance and again reproductive effects were observed at the top dose of 1000 mg/kg bw/day

Both available developmental toxicity studies are conducted via the dermal route. In addition, the rabbit study was a read across study from another substance and the maximum dose used was only 75 mg/kg bw/day.

An assessment should be made as to whether the dermal route is appropriate; the results from a dermal absorption study raise doubts as release of the substance into the blood was slow.

#### 3.3 Information on aggregated tonnage and uses

<input type="checkbox"/> 1 – 10 tpa	<input type="checkbox"/> 10 – 100 tpa	<input type="checkbox"/> 100 – 1000 tpa
<input type="checkbox"/> 1000 – 10,000 tpa	<input type="checkbox"/> 10,000 – 100,000 tpa	<input type="checkbox"/> 100,000 – 1,000,000 tpa
<input type="checkbox"/> 1,000,000 – 10,000,000 tpa	<input type="checkbox"/> > 10,000,000 tpa	
<input checked="" type="checkbox"/> 10,000+ tpa	<input type="checkbox"/> Confidential	
<input type="checkbox"/> 1 – 10 tpa	<input type="checkbox"/> 10 – 100 tpa	<input type="checkbox"/> 100 – 1000 tpa

As given on the dissemination site (10,000+).

JUSTIFICATION DOCUMENT FOR THE SELECTION OF A CORAP SUBSTANCE

<input checked="" type="checkbox"/> Industrial use	<input checked="" type="checkbox"/> Professional use	<input type="checkbox"/> Consumer use	<input type="checkbox"/> Closed System
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Industrial uses:  
 Manufacture of 2,2'-methyliminodiethanol (methylDEA)  
 Formulation of preparations  
 Application as intermediate in industrial settings  
 Laboratory work with methylDEA  
 Use in gas treatment  
 Use in lubricants and metal working fluids  
 Use as processing aid (catalyst) in polymerisation reactions  
 Use as additive in coatings

Professional uses:  
 Laboratory work with methylDEA  
 Use in lubricants and metal working fluids  
 Use as processing aid (catalyst) in polymerisation reactions  
 Use as additive in coatings  
 Use as additive in concrete and cement

**3.4 Other completed/ongoing regulatory processes that may affect suitability for substance evaluation**

<input type="checkbox"/> Compliance check final decision	<input type="checkbox"/> Dangerous substances Directive 67/548/EEC
<input type="checkbox"/> Testing proposal	<input type="checkbox"/> Existing Substances Regulation 793/93/EEC
<input checked="" type="checkbox"/> Annex VI (CLP)	<input type="checkbox"/> Plant Protection Products Regulation 91/414/EEC
<input type="checkbox"/> Annex XV (SVHC)	<input type="checkbox"/> Biocidal Products Directive 98/8/EEC
<input type="checkbox"/> Annex XIV (Authorisation)	<input type="checkbox"/> Other (provide further details below)
<input type="checkbox"/> Annex XVII (Restriction)	
Annex VI (CLP) see 2.1	

**3.5 Information to be requested to clarify the suspected risk**

<input checked="" type="checkbox"/> Information on toxicological properties	<input type="checkbox"/> Information on physico-chemical properties
<input type="checkbox"/> Information on fate and behaviour	<input type="checkbox"/> Information on exposure
<input type="checkbox"/> Information on ecotoxicological properties	<input type="checkbox"/> Information on uses
<input type="checkbox"/> Other (provide further details below)	
Further information on developmental toxicity may be required.	
Repeat inhalation data may be required if there are reasons to consider the current DNELs do not provide an adequate basis to assess long term inhalation exposure.	

**3.6 Potential follow-up and link to risk management**

<input type="checkbox"/> Restriction	<input type="checkbox"/> Harmonised C&L	<input type="checkbox"/> Authorisation	<input type="checkbox"/> Other (provide further details)
Any follow-up will depend on the outcome of the evaluation.			