

THIS DOCUMENT HAS BEEN PREPARED ACCORDING TO THE PROVISIONS OF  
ARTICLE 136(3) "TRANSITIONAL MEASURES REGARDING EXISTING SUBSTANCES"  
OF REACH (REGULATION (EC) 1907/2006). IT IS NOT A PROPOSAL FOR A RESTRICTION  
ALTHOUGH THE FORMAT IS THE SAME

## **Annex XV dossier**

### **Transitional Dossier**

**Substance Name:** 2-Ethoxyethanol

**EC Number:** 203-804-1

**CAS Number:** 110-80-5

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## **RESTRICTION PROPOSAL**

**Substance Name:** 2-Ethoxyethanol

**EC Number:** 203-804-1

**CAS Number:** 110-80-5

**Restriction proposal:** None

Other Risk reduction measures see attached Risk Reduction Strategy.

## INFORMATION ON HAZARD AND RISKS

### 1 IDENTITY OF THE SUBSTANCE AND PHYSICAL AND CHEMICAL PROPERTIES

#### 1.1 Name and other identifiers of the substance

Chemical Name: 2-Ethoxyethanol  
 EC Name: 2-Ethoxyethanol  
 CAS Number: 110-80-5  
 IUPAC Name: 2-Ethoxyethanol

#### 1.2 Composition of the substance

*For each constituent/ impurity/ additive, fill in the following table (which should be repeated in case of more than one constituent). The information is particularly important for the main constituent(s) and for the constituents (or impurity) which influence the outcome of the dossier.*

Chemical Name: 2-ethoxyethanol  
 EC Number: 203-804-1  
 CAS Number: 110-80-5  
 IUPAC Name: 2-ethoxyethanol  
 Molecular Formula: C<sub>4</sub>H<sub>10</sub>O<sub>2</sub>  
 Structural Formula:  
 Molecular Weight: 90.1 g/mol  
 Typical concentration (% w/w): > 99 % w/w  
 Concentration range (% w/w):

#### 1.3 Physico-chemical properties

2-Ethoxyethanol is a colourless liquid at 20 °C at room temperature and normal pressure. Data on the physical and chemical properties are given in table 1.1.

Melting point	< - 80 °C	Ullmann, 1978
Boiling point	132 - 137 °C at 1013hPa	Ullmann, 1978
Relative density	0.930 at 20 °C	Ullmann, 1978
Vapour pressure	5.3 hPa at 20 °C	Kirk-Othmer, 1980
Surface tension	69.5 mN/m at 25 °C <sup>1)</sup>	Union Carbide, 1998

Water solubility	miscible in each ratio at 20 °C	Kirk-Othmer, 1980
Partition coefficient	log Pow –0.54 to –0.10 <sup>2)</sup>	Dearden & Bresnen, 1988
Flash point	40 °C (closed cup)	Chemsafe, 1996
Flammability	flammable <sup>3)</sup>	Chemsafe, 1996
Ignition temperature	235 °C	Chemsafe, 1996
Explosive properties	not explosive <sup>4)</sup>	Chemsafe, 1996
Oxidising properties	no oxidising properties <sup>5)</sup>	Chemsafe, 1996
Henry's law constant	0.003 Pa * m <sup>3</sup> * mol <sup>-1</sup>	Howard, Meylan; SRC 1993

**Table 1: Summary of physico- chemical properties**

- 1) Ring method
- 2) In the following risk assessment report a log Pow of – 0.43 is used
- 3) Test A.10 not conducted (substance is a liquid)  
Test A.12 and A.13 not conducted because of structural reasons
- 4) No test conducted because of structural reasons
- 5) No test conducted because of structural reasons

## **2 MANUFACTURE AND USES**

See Risk Assessment Report

## **3 CLASSIFICATION AND LABELLING**

### **3.1 Classification in Annex I of Directive 67/548/EEC**

Classification according to Annex I of directive 67/548/EEC:

Reprotox. Cat. 2,

R 60                      may impair fertility

R 61                      may cause harm to unborn child

T                          toxic

Xn                        harmful

R 10                      Flammable

R 20/21/22              harmful by inhalation, in contact with skin and if swallowed

### **3.2 Self classification(s)**



**4 ENVIRONMENTAL FATE PROPERTIES**

See Risk Assessment Report Draft of 21 November 2008.

**5 HUMAN HEALTH HAZARD ASSESSMENT**

See Risk Assessment Report Draft of 21 November 2008.

**6 HUMAN HEALTH HAZARD ASSESSMENT OF PHYSICO-CHEMICAL PROPERTIES**

See Risk Assessment Report Draft of 21 November 2008.

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**7 ENVIRONMENTAL HAZARD ASSESSMENT**

See Risk Assessment Report Draft of 21 November 2008.

**8 PBT AND VPVB ASSESSMENT**

**9 EXPOSURE ASSESSMENT**

See Risk Assessment Report Draft of 21 November 2008.

**10 RISK CHARACTERISATION**

See Risk Assessment Report Draft of 21 November 2008.

## **INFORMATION ON ALTERNATIVES**

- 11 INFORMATION ON THE RISKS TO HUMAN HEALTH AND THE ENVIRONMENT RELATED TO THE MANUFACTURE OF USE OF THE ALTERNATIVES**
- 12 AVAILABILITY OF ALTERNATIVE, INCLUDING THE TIME SCALE**
- 13 TECHNICAL AND ECONOMICAL FEASIBILITY**

## **JUSTIFICATION FOR RESTRICTION AT COMMUNITY LEVEL**

### **14 JUSTIFICATION THAT ACTION IS REQUIRED ON THE COMMUNITY-WIDE BASIS**

None

Other measures see Risk Reduction Strategy.

### **15 JUSTIFICATION FOR THE PROPOSES RESTRICTION**

**15.1 Effectiveness**

**15.2 Practicality**

**15.3 Monitorability**

## **SOCIO ECONOMIC ASSESSMENT**

## **OTHER INFORMATION**

*It is suggested to include here information on any consultation which took place during the development of the dossier. This could indicate who was consulted and by what means, what comments (if any) were received and how these were dealt with. The data sources (e.g registration dossiers, other published sources) used for the dossier could also be indicated here.*

## **REFERENCES**

See Risk Assessment Report Draft of 21 November 2008.

**ANNEX**

See Risk Assessment Report Draft of 21 November 2008.

Risk Reduction Strategy Draft of 21.November 2008