Substance Name: 2-methoxyethyl acetate

EC Number: 203-772-9

CAS Number: 110-49-6

SUPPORT DOCUMENT FOR IDENTIFICATION OF

2-METHOXYETHYL ACETATE

AS A SUBSTANCE OF VERY HIGH CONCERN BECAUSE OF ITS TOXIC FOR REPRODUCTION (ARTICLE 57C) PROPERTIES

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TABLES

IDENTIFICATION OF A SUBSTANCE OF VERY HIGH CONCERN ON THE BASIS OF THE CRITERIA SET OUT IN REACH ARTICLE 57

Substance Name: 2-methoxyethyl acetate

EC Number: 203-772-9

CAS number: 110-49-6

- The substance is identified as a substance meeting the criteria of Article 57 (c) of Regulation (EC) No 1907/2006 (REACH) owing to its classification in the hazard class toxic for reproduction category 1B[1].

Summary of how the substance meets the criteria set out in Article 57 of the REACH Regulation

2-methoxyethyl acetate is covered by index number 607-036-00-1 of Regulation (EC) No 1272/2008 in Annex VI, part 3, Table 3.1 (the list of harmonised classification and labelling of hazardous substances) and it is classified in the hazard class toxic for reproduction category 1B (May damage fertility. May damage the unborn child).

Therefore, this classification of the substance in Regulation (EC) No 1272/2008 shows that it meets the criteria for classification in the hazard class:

- Toxic for reproduction category 1B in accordance with Article 57 (c) of REACH.

Registration dossiers submitted for the substance? No

[1] Classification in accordance with section 3.7 of Annex I to Regulation (EC) No 1272/2008

Justification

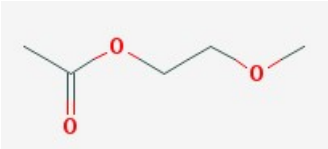
1 Identity of the substance and physical and chemical properties

1.1 Name and other identifiers of the substance

Table 1: Substance identity

EC number:	203-772-9
EC name:	2-methoxyethyl acetate
CAS number (in the EC inventory):	110-49-6
CAS number: **Deleted CAS numbers:**	
CAS name:	
IUPAC name:	2-methoxyethyl acetate; methylglycol acetate,
Index number in Annex VI of the CLP Regulation	607-036-00-1
Molecular formula:	C5H10O3
Molecular weight range:	118.132 g/mol
Synonyms:	Methylglycol acetate 1-Acetoxy-2-methoxyethane Ethylene glycol monomethyl ether acetate Glycol monomethyl ether acetate EGMEA

Structural formula:



1.2 Composition of the substance

Name: 2-methoxyethyl acetate

Description: organic

Substance type: mono-constituent

1.3 Identity and composition of degradation products/metabolites relevant for the SVHC assessment

2-methoxyethyl acetate is metabolised to form methoxyacetic acid and 2-methoxyethanol. Both these substances have harmonised classifications as Repr. 1B and are included in the Candidate List. These metabolites are assumed to be associated with the reprotoxic effects demonstrated for several glycol ethers with similar structures, including 2-methoxyethyl acetate.

Table 2: Degradation (transformation) product/metabolite methoxyacetic acid

EC number:	210-894-6
EC name:	Methoxyacetic acid
SMILES:	
CAS number (in the EC inventory):	
CAS number:	625-45-6
CAS name:	
IUPAC name:	2-methoxyacetic acid, methoxyessigsäure
Index number in Annex VI of the CLP Regulation	607-312-00-1
Molecular formula:	C3H6O3
Molecular weight range:	
Synonyms:	

Structural formula:

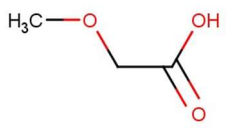
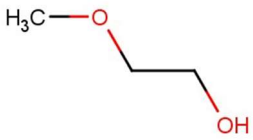


Table 3: Degradation (transformation) product/metabolite 2-methoxyethanol

EC number:	203-713-7
EC name:	2-methoxyethanol
SMILES:	
CAS number (in the EC inventory):	
CAS number:	109-86-4;
CAS name:	
IUPAC name:	2-methoxy-ethanol, 2-methoxyethan-1-ol, 2-methoxyethanol, ethylene glycol monomethyl ether, methylglycol
Index number in Annex VI of the CLP Regulation	603-011-00-4
Molecular formula:	C3H8O2
Molecular weight range:	
Synonyms:	

Structural formula:



1.4 Identity and composition of structurally related substances (used in a grouping or read-across approach)

Not relevant for the identification of the substance as SVHC in accordance with Article 57 (c) of REACH, as this substance has a harmonised classification as Repr. 1B.

1.5 Physicochemical properties

Not relevant for the identification of the substance as SVHC in accordance with Article 57 (c) REACH.

2 Harmonised classification and labelling

2-methoxyethyl acetate is covered by Index number 607-036-00-1 in part 3 of Annex VI to the CLP Regulation as follows:

Table 4: Classification according to Annex VI, Table 3.1 (list of harmonised classification and labelling of hazardous substances) of Regulation (EC) No 1272/2008

Index No	International Chemical Identification	EC No	CAS No	Classification		Labelling			Spec. Conc. Limits, M-factors	Notes
				Hazard Class and Category Code(s)	Hazard statement code(s)	Pictogram, Signal Word Code(s)	Hazard statement code(s)	Suppl. Hazard statement code(s)		
607-036-00-1	2-methoxyethyl acetate methylglycol acetate	203-772-9	110-49-6	Repr. 1B	H360FD	GHS08 GHS07 Dgr	H360FD			

3 Environmental fate properties

Not relevant for the identification of the substance as SVHC in accordance with Article 57 (c) of REACH.

4 Human health hazard assessment.

Not relevant for the identification of the substance as SVHC in accordance with Article 57 (c) of REACH.

5 Environmental hazard assessment

Not relevant for the identification of the substance as SVHC in accordance with Article 57 (c) of REACH.

6. Conclusions on the SVHC Properties

6.1 CMR assessment

2-methoxyethyl acetate is covered by index number 607-036-00-1 of Regulation (EC) No 1272/2008 in Annex VI, part 3, Table 3.1 (the list of harmonised classification and labelling of hazardous substances) and it is classified in the hazard class toxic for reproduction category 1B (May damage fertility. May damage the unborn child).

Therefore, this classification of the substance in Regulation (EC) No 1272/2008 shows that it meets the criteria for classification in the hazard class:

- Toxic for reproduction category 1B in accordance with Article 57 (c) of REACH.

References

EU (2006). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. Official Journal of the European Union, L396: 1-849.

EU (2008). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packing of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Official Journal of the European Union, L353: 1-1355.