

**Substance Name: Methoxyacetic acid (MAA)**

**EC Number: 210-894-6**

**CAS Number: 625-45-6**

**MEMBER STATE COMMITTEE**

**SUPPORT DOCUMENT<sup>1</sup> FOR IDENTIFICATION OF**

**METHOXYACETIC ACID (MAA)**

**AS A SUBSTANCE OF VERY HIGH CONCERN BECAUSE OF ITS  
CMR<sup>2</sup> PROPERTIES**

**Adopted on 12 December 2012**

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<sup>1</sup> The present document relates solely to the proposed identification of MAA as a SVHC due to its toxic for reproduction properties. The part of the Annex XV proposal concerning the identification of the substance as SVHC due to its endocrine disrupting properties was withdrawn by the dossier submitter. The withdrawal was motivated by the MSC discussion indicating that at this point in time there seems to be a need for a general discussion on issues related to the identification of SVHCs under Article 57 (f) concomitant with other criteria set out in points (a) to (e) of Article 57.

<sup>2</sup> CMR means carcinogenic, mutagenic or toxic for reproduction

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**Substance Name(s): Methoxyacetic acid (MAA)**

**EC Number(s): 210-894-6**

**CAS number(s): 625-45-6**

Methoxyacetic acid (MAA) is identified as substance meeting the criteria of Article 57 (c) of Regulation (EC) 1907/2006 (REACH) owing to its classification as toxic for reproduction category 1B, which corresponds to classification as toxic for reproduction category 2<sup>3</sup>.

**Summary of how the substance meets the CMR (Cat 1A or 1B), PBT or vPvB criteria, or is considered to be a substance giving rise to an equivalent level of concern**

Methoxyacetic acid (MAA) is listed as entry 607-312-00-1 in Annex VI, part 3, Table 3.1 of Regulation (EC) No. 1272/20084 as toxic for reproduction, Repr. 1B (H360FD "May damage fertility. May damage the unborn child"). This corresponds to a classification in Annex VI, part 3, Table 3.2 of Regulation (EC) No 1272/2008 (the list of harmonized classification and labelling of hazardous substances from Annex I to Council Directive 67/548/EEC) as toxic for reproduction, category 2, R60 ("May impair fertility"; R61 "May cause harm to the unborn child.").

Therefore, this classification of MAA in Regulation (EC) No 1272/2008 shows that the substance meets the criteria for classification as toxic for reproduction in accordance with Article 57 (c) of REACH.

**Registration (s) submitted for the substance: Yes**

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<sup>3</sup> Classification in accordance with Regulation (EC) No 1272/2008, Annex VI, part 3, Table 3.2 List of harmonised classification and labelling of hazardous substances (from Annex I to Council Directive 67/548/EEC), OJ L 353, p.1, 31.12.2008.

<sup>4</sup> Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

## Justification

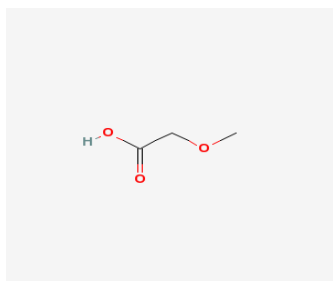
### 1 Identity of the substance and physical and chemical properties

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

Table 1. Substance identity

EC number:	210-894-6
EC name:	methoxyacetic acid
CAS number (in the EC inventory):	625-45-6
CAS number:	625-45-6
CAS name:	Acetic acid, 2-methoxy-
IUPAC name:	2-Methoxyacetic acid
Index number in Annex VI of the CLP Regulation	607-312-00-1
Molecular formula:	C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>
Molecular weight range:	90.08 g/mol

#### Structural formula:



#### 1.2 Composition of the substance

**Name:** methoxyacetic acid

**Description:** -

**Degree of purity:** > 98 % (w/w)

Table 2. Constituents

Constituents	Typical concentration	Concentration range	Remarks
methoxyacetic acid 210-894-6	see Confidential Annex	see Confidential Annex	

**Table 3. Impurities**

Impurities	Typical concentration	Concentration range	Remarks
<i>see confidential Annex</i>	<i>see Confidential Annex</i>		

### 1.3 Physico-chemical properties

**Table 4. Overview of physicochemical properties**

Property	Value	Remarks
Physical state at 20°C and 101.3 kPa	Colourless liquid with pungent odour	<i>from registration*</i>
Melting/freezing point	7 °C 8 °C 7-9 °C	<i>from registration*</i>
Boiling point	202°C at 1013hPa 203 °C at 1013hPa 202-204°C at 1013hPa	<i>from registration*</i>
Vapour pressure	1hPa at 20°C 1.8 hPa at 20°C 4.8 hPa at 50°C	<i>from registration*</i>
Water solubility	completely miscible	<i>from registration*</i>
Partition coefficient n-octanol/water (log value)	log Pow: -0.68	<i>from registration*</i>

\*From dissemination database according to Regulation (EC) No.1907/2006, article 119.

## 2 Harmonised classification and labelling

Methoxyacetic acid is classified and labelled according to Reg (EC) 1272/2008, Annex VI, Table 3.1 and Table 3.2, as follows (see Table 5 and 6):

**Table 5. Classification of MAA according to Reg (EC) 1272/2008, Annex VI, Table 3.1.**

Index No	International Chemical Identification	EC No	CAS No	Classification		Labelling		Spec. Conc. Limits, Mfactors
				Hazard Class and Category Code(s)	Hazard statement code(s)	Pictogram Signal Word Code(s)	Hazard statement code(s)	
607-312-00-1	methoxyacetic acid	210-894-6	625-45-6	Repr. 1B Acute Tox. 4 Skin Corr. 1B	H360FD H302 H314	GHS08 GHS05 GHS07 Dgr		STOT SE 3; H335: C ≥ 5 %

**Table 6. Classification of MAA according to Reg (EC) 1272/2008, Annex VI, Table 3.2.**

Index No	International Chemical Identification	EC No	CAS No	Classification	Labelling	Conc. Limits
607-312-00-1	methoxyacetic acid	210-894-6	625-45-6	Repr. Cat. 2; R60-61 Xn; R22 C; R34	T R: 60-61-22-34 S: 53-45	C; R34: C ≥ 10 % Xi; R36/37/38: 5 % ≤ C < 10 %

### 3 Environmental fate properties

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

### 4 Human health hazard assessment

See section 2 on Harmonised Classification and Labelling.

### 5 Environmental hazard assessment

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

## 6 Conclusions on the SVHC Properties

### 6.1 CMR assessment

Methoxyacetic acid (MAA) is listed as entry 607-312-00-1 in Annex VI, part 3, Table 3.1 of Regulation (EC) No. 1272/2008<sup>5</sup> as toxic for reproduction, Repr. 1B (H360FD "*May damage fertility. May damage the unborn child*"). This corresponds to a classification in Annex VI, part 3, Table 3.2 of Regulation (EC) No 1272/2008 (the list of harmonized classification and labelling of hazardous substances from Annex I to Council Directive 67/548/EEC) as toxic for reproduction, category 2, R60 "*May impair fertility.*"; R61 "*May cause harm to the unborn child.*").

Therefore, this classification of MAA in Regulation (EC) No 1272/2008 shows that the substance meets the criterion for classification as toxic for reproduction in accordance with Article 57 (c) of REACH.

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<sup>5</sup> Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.