

## **Annex XV report**

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

**Substance Name:** 1-vinylimidazole

**EC Number:** 214-012-0

**CAS Number:** 1072-63-5

**Submitted by:** Sweden

**Date:** February 2020

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## CONTENTS

<b>PROPOSAL FOR IDENTIFICATION OF A SUBSTANCE OF VERY HIGH CONCERN ON THE BASIS OF THE CRITERIA SET OUT IN REACH ARTICLE 57</b> .....	4
<b>PART I</b> .....	5
<b>JUSTIFICATION</b> .....	5
<b>1. IDENTITY OF THE SUBSTANCE AND PHYSICAL AND CHEMICAL PROPERTIES</b> .....	5
1.1 Name and other identifiers of the substance .....	5
1.2 Composition of the substance .....	5
1.3 Physicochemical properties .....	5
<b>2. HARMONISED CLASSIFICATION AND LABELLING</b> .....	6
<b>3. ENVIRONMENTAL FATE PROPERTIES</b> .....	6
<b>4. HUMAN HEALTH HAZARD ASSESSMENT</b> .....	6
<b>5. ENVIRONMENTAL HAZARD ASSESSMENT</b> .....	6
<b>6. CONCLUSIONS ON THE SVHC PROPERTIES</b> .....	7
6.1 CMR assessment .....	7
6.2 PBT and vPvB assessment .....	7
6.3 Assessment under Article 57(f) .....	7
<b>PART II</b> .....	8
<b>7. REGISTRATION AND C&amp;L NOTIFICATION STATUS</b> .....	8
7.1 Registration status .....	8
7.2 CLP notification status .....	8
<b>8. TOTAL TONNAGE OF THE SUBSTANCE</b> .....	8
<b>9. INFORMATION ON USES OF THE SUBSTANCE</b> .....	8
<b>10. INFORMATION ON STRUCTURE OF THE SUPPLY CHAIN</b> .....	9
<b>REFERENCES FOR PART I</b> .....	10

## TABLES

<b>Table 1:</b> Substance identity .....	5
<b>Table 2:</b> Classification according to Annex VI, Table 3.1 (list of harmonised classification and labelling of hazardous substances) of Regulation (EC) No 1272/2008 .....	6
<b>Table 3:</b> Registration status .....	8
<b>Table 4:</b> CLP notifications .....	8
<b>Table 5:</b> Tonnage status .....	8
<b>Table 6:</b> Uses .....	9

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

**Substance name:** 1-vinylimidazole

**EC number:** 214-012-0

**CAS number:** 1072-63-5

- The substance is proposed to be 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<sup>1</sup>.

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

1-vinylimidazole is covered by index number 613-328-00-X 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 (H360D: "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 the REACH Regulation.

**Registration dossiers submitted for the substance:** Yes

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<sup>1</sup> Classification in accordance with section 3.7 of Annex I to Regulation (EC) No 1272/2008.

## PART I

### Justification

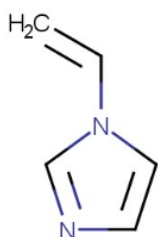
#### 1. Identity of the substance and physical and chemical properties

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

**Table 1:** Substance identity

<b>EC number:</b>	214-012-0
<b>EC name:</b>	1-vinylimidazole
<b>CAS number (in the EC inventory):</b>	1072-63-5
<b>CAS name:</b>	1 <i>H</i> -Imidazole, 1-ethenyl-
<b>IUPAC name:</b>	1-ethenyl-1 <i>H</i> -imidazole 1-Vinyl-1 <i>H</i> -imidazole <i>N</i> -vinyl imidazole
<b>Index number in Annex VI of the CLP Regulation</b>	613-328-00-X
<b>Molecular formula:</b>	C <sub>5</sub> H <sub>6</sub> N <sub>2</sub>
<b>Molecular weight range:</b>	
<b>Synonyms:</b>	

##### Structural formula:



##### 1.2 Composition of the substance

**Name:** 1-vinylimidazole

**Description:** organic

**Substance type:** mono-constituent

##### 1.3 Physicochemical properties

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

## 2. Harmonised classification and labelling

1-vinylimidazole is covered by Index number 613-328-00-x in part 3 of Annex VI to the CLP Regulation as follows:

**Table 2:** 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	Chemical name	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)		
613-328-00-X	1-vinylimidazole	214-012-0	1072-63-5	Repr. 1B	H360D	GHS08 Dgr	H360D	-	C ≥ 0.03%	

## 3. Environmental fate properties

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

## 4. Human health hazard assessment

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

## 5. Environmental hazard assessment

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

## **6. Conclusions on the SVHC Properties**

### **6.1 CMR assessment**

1-vinylimidazole is covered by index number 613-328-00-X 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 (H360D: “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 the REACH Regulation.

### **6.2 PBT and vPvB assessment**

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

### **6.3 Assessment under Article 57(f)**

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

## Part II

### 7. Registration and C&L notification status

#### 7.1 Registration status

**Table 3:** Registration status

From the ECHA dissemination site <sup>2</sup>	
Registrations	<input checked="" type="checkbox"/> Full registration(s) (Art. 10) <input type="checkbox"/> Intermediate registration(s) (Art. 17 and/or 18)

#### 7.2 CLP notification status

**Table 4:** CLP notifications

	CLP Notifications <sup>3</sup>
Number of aggregated notifications	12
Total number of notifiers	352

### 8. Total tonnage of the substance

**Table 5:** Tonnage status

Total tonnage band for the registered substance (excluding the volume registered under Art 17 or Art 18)	1+ tonnes per annum
Tonnage information from public sources other than registration dossiers (if available)	See information from SPIN database in section 9 below

### 9. Information on uses of the substance

The registration only includes uses in formulation and in industrial processes, as intermediate and as monomer for polymer production. No professional or consumer uses are indicated. There are >350 notifiers of this substance, some of which may have other types of uses, including non-intermediate uses. No downstream user reports are available.

<sup>2</sup> <https://www.echa.europa.eu/web/guest/registration-dossier/-/registered-dossier/12790/1> (accessed on 18 December, 2019)

<sup>3</sup> C&L Inventory database, <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database> (accessed 29 January 2020)



**Product register data**

According to registers from the Nordic database SPIN<sup>4</sup>, the total tonnage of the substance registered in Sweden was 3 tonnes in 2015. In 2016 and 2017, the registered volumes were below the limit of accuracy (<100 kg), but a recent slight increase in the number of mixtures containing the substance is noted. Both Sweden and Norway report consumer mixtures. Denmark reports a volume of less than 100 kg per year, and 29-62 mixtures per year (including years 2000 to 2017).

The technical uses of mixtures include paints, lacquers, varnishes, surface treatment, and cleaning/washing agents. According to the SPIN database, the industrial use of 1-vinylimidazole includes the following categories:

- Wholesale and retail trade and repair of motor vehicles and motorcycles,
- Manufacture of chemicals and chemical products,
- Sale, maintenance and repair of motor vehicles and motorcycles,
- Retail sale of automotive fuel,
- Construction

Information from the Swedish Products Register further indicates that the substance is found as impurity/non-reacted monomer in raw material for different consumer mixtures at concentrations above the SCL (range 0.6% - 4.5%). In the consumer mixtures however, as a result of dilution the concentrations would be lower.

**Table 6:** Uses<sup>5</sup>

	Use(s)	Registered use	Use possibly in the scope of Authorisation
<b>Uses as intermediate</b>		Yes	No
<b>Formulation or repacking</b>	Formulation of mixtures Charging and discharging of substances and mixtures	Yes	No
<b>Uses at industrial sites</b>	Use as intermediate Use as monomer in polymerisation reactions Use in laboratories, industrial	Yes	No
<b>Uses by professional workers</b>		No	No
<b>Consumer uses</b>		No	No
<b>Article service life</b>		No	No

**10. Information on structure of the supply chain**

No information available.

<sup>4</sup> <http://spin2000.net/> (accessed 30 October 2019)

<sup>5</sup> Information from ECHA's dissemination site: <https://www.echa.europa.eu/web/guest/registration-dossier/-/registered-dossier/12790> (accessed 3 February 2020).

## References for Part I

- 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.