



Annex 15 report

Proposal for identification of a substance of very high concern (SVHC) under UK REACH

Substance Name: Tris(2-methoxyethoxy)vinylsilane

EC Number: 213-934-0

CAS Number: 1067-53-4

March 2026

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1. Proposal

Substance name: Tris(2-methoxyethoxy)vinylsilane

EC number: 213-934-0

CAS number: 1067-53-4

The substance is proposed to be identified as a substance meeting the criteria of Article 57 (c) of UK REACH owing to its classification in the hazard class toxic for reproduction category 1B¹.

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

Tris(2-methoxyethoxy)vinylsilane is included in the GB Mandatory Classification and Labelling (MCL) list. It is covered by the entry with index number 014-050-00-6 and classified in the hazard class toxic for reproduction category 1B (H360FD; May damage fertility. May damage the unborn child).

¹ Classification in accordance with section 3.7 of Annex I to the retained Regulation (EC) No 1272/2008 as amended for Great Britain (hereinafter referred to as GB CLP).

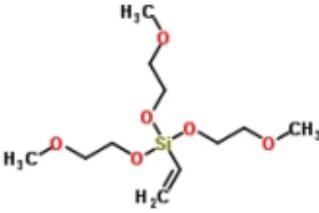
2. Justification

2.1 Identity of the substance and physical and chemical properties

2.1.1 Name and other identifiers of the substance

Table 1: Substance identity

EC number:	213-934-0
EC name:	Tris(2-methoxyethoxy)vinylsilane
CAS number (in the EC inventory):	1067-53-4
IUPAC name:	6-(2-methoxyethoxy)-6-vinyl-2,5,7,10-tetraoxa-6-silaundecane
Index number in GB MCL List	014-050-00-6
Molecular formula:	C ₁₁ H ₂₄ O ₆ Si
Molecular weight range:	280.39 g/mol
Synonyms:	6-(2-methoxyethoxy)-6-vinyl-2,5,7,10-tetraoxa-6-silaundecane 2,5,7,10-tetraoxa-6-silaundecane, 6-ethenyl-6-(2-methoxyethoxy)- 6-ethenyl-6-(2-methoxyethoxy)- 2,5,7,10-Tetraoxa-6-silaundecane vinyltris(2-methoxyethoxy)silane ethenyl-tris(2-methoxyethoxy)silane

Structural formula:	
Substance type:	Mono-constituent substance

Data source: EU Annex 15 report ([ECHA, 2021](#))

2.1.2 Composition of the substance

Information on impurities and additives is not relevant for the identification of the substance as a SVHC.

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

Whilst tris(2-methoxyethoxy)vinyldimethylsilane is itself listed on the GB MCL list and classified as toxic for reproduction category 1B (H360FD), it is noted that it is a volatile liquid which is reported to hydrolyse rapidly when in contact with water or moisture in the air. This produces 2-methoxyethanol (EC 203-713-7, CAS 109-86-4) and vinyltrisilanol (CAS 143-48-6) ([ECHA, 2022](#)).

It is noted that 2-methoxyethanol (ethylene glycol monomethyl ether; EGME) has a mandatory classification as toxic for reproduction (Repr. 1B; H360FD, index number 603-011-00-4) and is also included on the UK and EU REACH candidate lists.

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

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

2.1.5 Physicochemical properties

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

2.2 Mandatory classification and labelling

Table 2: Mandatory classification in the GB MCL list

Index No	International Chemical Identification	EC No	CAS No	GB MCL list Classification		Aligned with EU CLH ^a
				Hazard Class and Category Code(s)	Hazard statement code(s)	Y/N
14-050-00-6	tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4	Repr. 1B	H360FD	Y

^a EU CLH is harmonised classification and labelling in accordance with Regulation (EC) 1272/2008

2.3 Human health hazard assessment

Please see Section 2.2 (Mandatory classification and labelling).

2.4 Conclusions on the SVHC properties

2.4.1 CMR assessment

Tris(2-methoxyethoxy)vinylsilane is covered by the entry with index number 014-050-00-6 in the GB MCL list and is classified in the hazard class toxic for reproduction category 1B (H360FD; May damage fertility. May damage the unborn child).

Therefore, the substance satisfies the criterion in Article 57 (c) of UK REACH.

3. Information on use, exposure and alternatives

3.1 UK and EU REACH registration status and tonnage

The substance is registered in the range of 10 - 100 tonnes per annum (tpa) under UK REACH. In addition, 21 Downstream User Import Notifications (DUINs²) have been submitted.

Under EU REACH, the substance is registered with an aggregated tonnage of 1,000 – 10,000 tpa (four active EU registrants)³.

3.2 General description of uses and exposure

The substance is described as a crosslinking, binding and coupling agent and surface modifier. It is reportedly used in the manufacture of rubber and plastic, formulation and use of non-metal surface treatment solutions/dispersions, and in the formulation and use of adhesives and sealants ([ECHA, 2021](#)).

² GB-based companies who imported substances from EU-based suppliers before UK REACH became law on 1 January 2021 had no EU REACH registration obligations as they were classed as Downstream Users (DUs). As they are now importers from outside of GB, they may have registration obligations under UK REACH. However, a transitional measure allows former DUs to suspend the registration until one of three deadlines (depending on tonnage and hazard). Where the identity of these imported substances was known, they could be included in a Downstream User Import Notification (DUIN) submitted to the Agency.

³ ECHA Chemicals database; ECHA CHEM <https://chem.echa.europa.eu/>

3.3 Alternatives

The EU Annex 15 report ([ECHA, 2021](#)) notes that several potential alternatives may be available for a significant number of uses, including closely related alkoxysilanes that do not hydrolyse to 2-methoxyethanol. However, specific alternatives would have to be identified use by use (i.e., dependent on the mechanical, thermal and electrical properties needed) and further consideration of potential hazards of those alternatives would be required.

3.4 Additional information

No additional information available.

References

ECHA (2018) Committee for Risk Assessment (RAC) Opinion proposing harmonised classification and labelling at EU level of tris(2-methoxyethoxy)vinylsilane; 6-(2-methoxyethoxy)-6-vinyl-2,5,7,10-tetraoxa-6-silaundecane; CLH-O-0000001412-86-207/F; Date: 08/06/2018. Available at: <https://echa.europa.eu/documents/10162/d0fbc85d-221f-c92e-a079-cc9b00661d11> [Accessed: 09/2025].

ECHA (2021) 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. Available at: <https://echa.europa.eu/documents/10162/2bdd5810-9692-71fc-17d3-bcad5123aa19> [Accessed date: 09/2025].

ECHA Chemicals database; ECHA CHEM. Available at: <https://chem.echa.europa.eu/> [Accessed: 09/2025]

Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology (2021) EU Risk management options analysis. Available at: <https://echa.europa.eu/assessment-regulatory-needs/-/dislist/details/0b0236e185dbcee4> [Accessed date: 09/2025].

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 (Text with EEA relevance). Available at: <https://www.legislation.gov.uk/eur/2008/1272/contents> [Accessed 09/2025].

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 (Text with EEA relevance). Available at: <https://www.legislation.gov.uk/eur/2006/1907/contents> [Accessed 09/2025]

Glossary of terms used in Agency Annex 15 report

Agency, the HSE

CLH	Harmonised Classification and Labelling
CLP	Classification, labelling and packaging
DBMC	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol
DUIN	Downstream User Import Notifications
ECHA	European Chemicals Agency
EU	European Union
HSE	Health and Safety Executive
MCL	Mandatory Classification and Labelling
RAC	Committee for Risk Assessment
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals regulation
RMOA	Risk management options analysis
SVHC	Substance of very high concern



Further information

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