Statement on Regulation (EU) No 517/2014 on Fluorinated Greenhouse Gases



The objective of Regulation (EU) No 517/2014 is to protect the environment by reducing emissions of fluorinated greenhouse gases. The Regulation entered into force on 9 June 2014 and applies from 1 January 2015.

Three main regulatory approaches aim to reduce fluorinated greenhouse gas emissions:

- 1. Introduction of a gradual phase-down of the quantities of hydrofluorocarbons (HFCs) available on the market to one-fifth of current levels by 2030,
- 2. Prohibitions on use and placement on the market, insofar as technically feasible and more climate friendly alternatives are available,
- 3. Continuation and expansion of the scope of regulations concerning leak tests, certification, disposal and labelling.

In article 2 point 1 of the Regulation, 'fluorinated greenhouse gases' are defined as hydrofluorocarbons, perfluorocarbons, sulphur hexafluoride and other greenhouse gases that contain fluorine, listed in Annex I (of that Regulation), or mixtures containing any of those substances. 'GWP' or 'global warming potential' means the climatic warming potential of a greenhouse gas relative to that of carbon dioxide ('CO2'), calculated in terms of the 100-year warming potential of one kilogram of a greenhouse gas relative to one kilogram of CO2.

We confirm that the following products of Covestro Deutschland AG comply with applicable requirements of Regulation (EU) No 517/2014 of 16 April 2014 (repealing Regulation (EC) No 842/2006) on fluorinated greenhouse gases and:

ACCLAIM	BAYPREG	DESMOTHERM
APEC	BAYTEC	DISPERCOLL
ARCOL	BLENDUR	HYPERLITE
BAYBLEND *	CRELAN	IMPRAFIX
BAYBOND	DESAVIN	IMPRANIL
BAYCOLL	DESMOCAP	IMPRAPERM
BAYCUSAN	DESMOCOLL	MAKROBLEND
BAYFILL	DESMODERM	MAKROLON *
BAYGAL	DESMODUR	MULTITEC
BAYHYDROL	DESMOLAC	PERGUT
BAYHYDUR	DESMOMELT	ULTRACEL
BAYHYTHERM	DESMOPAN	URETEK
BAYMEDIX	DESMOPHEN	VULKOLLAN
BAYMIDUR	DESMORAPID	
BAYNAT	DESMOSEAL	

^{*} Note: This confirmation only applies to granulated products

Statement on Regulation (EU) No 517/2014 on Fluorinated Greenhouse Gases



To the best of our knowledge the above-mentioned products do not intentionally contain the following Fluorinated Greenhouse Gases (as defined in point 1 of article 2 and listed in Annex I of Regulation (EU) No 517/2014) and therefore these substances are not expected to be present above limit values, if applicable. The presence of analytically detectable traces, which have possibly been introduced via raw materials, auxiliaries and additives, cannot be excluded. Specific analyses to measure such traces have not been performed on raw materials or final products.:

Annex I, Section 1: Hydrofluorocarbons (HFCs)

HFC-23	trifluoromethane (fluoroform)	CHF3	
HFC-32	difluoromethane	CH2F2	
HFC-41	fluoromethane (methyl fluoride)	CH3F	
HFC-125	pentafluoroethane	CHF2CF3	
HFC-134	1,1,2,2-tetrafluoroethane	CHF2CHF2	
HFC-134a	1,1,1,2-tetrafluoroethane	CH2FCF3	
HFC-143	1,1,2-trifluoroethane	CH2FCHF2	
HFC-143a	1,1,1-trifluoroethane	CH3CF3	
HFC-152	1,2-difluoroethane	CH2FCH2F	
HFC-152a	1,1-difluoroethane	CH3CHF2	
HFC-161	fluoroethane (ethyl fluoride)	H3CH2F	
HFC-227ea	1,1,1,2,3,3,3-heptafluoropropane	CF3CHFCF3	
HFC-236cb	1,1,1,2,2,3-hexafluoropropane	CH2FCF2CF3	
HFC-236ea	1,1,1,2,3,3-hexafluoropropane	CHF2CHFCF3	
HFC-236fa	1,1,1,3,3,3-hexafluoropropane	CF3CH2CF3	
HFC-245ca	1,1,2,2,3-pentafluoropropane	CH2FCF2CHF2	
HFC-245fa	1,1,1,3,3-pentafluoropropane	CHF2CH2CF3	
HFC-365 mfc	1,1,1,3,3-pentafluorobutane	CF3CH2CF2CH3	
HFC-43-10 mee	1,1,1,2,2,3,4,5,5,5-decafluoropentane	CF3CHFCHFCF2CF3	

Annex I, Section 2: Perfluorocarbons (PFCs)

PFC-14	tetrafluoromethane (perfluoromethane,	
	carbon tetrafluoride)	CF4
PFC-116	hexafluoroethane (perfluoroethane)	C2F6
PFC-218	octafluoropropane (perfluoropropane)	C3F8
PFC-3-1-10 (R-31-10)	decafluorobutane (perfluorobutane)	C4F10
PFC-4-1-12 (R-41-12)	dodecafluoropentane (perfluoropentane)	C5F12
PFC-5-1-14 (R-51-14)	tetradecafluorohexane (perfluorohexane)	C6F14
PFC-c-318	octafluorocyclobutane (perfluorocyclobutane)	c-C4F8

Annex I, Section 3: Other perfluorinated compounds

sulphur hexafluoride SF6

Statement on Regulation (EU) No 517/2014 on Fluorinated Greenhouse Gases



Annex II of the Regulation is listing 'other fluorinated greenhouse gases subject to reporting in accordance with article 19'. These substances are Unsaturated hydro(chloro)fluorocarbons (e.g. HFC-1234yf), Fluorinated ethers and alcohols (e.g. HFE-125), and Other perfluorinated compounds (e.g. nitrogen trifluoride).

Exceptions: In contrast to the above defined products, the following product lines may contain such Fluorinated Greenhouse Gases if clearly identified in the safety data sheet:

BAYFLEX BAYDUR **BAYSAFE BAYFIT BAYMER** BAYSEAL

The safety data sheet of Covestro Deutschland AG will identify Fluorinated Greenhouse Gases according to the Regulation (EU) No. 517/2014 in chapter 3 when 0.1% or more of these blowing agents are incorporated. There are no products on sale with intentionally added Fluorinated Greenhouse Gases below 0.1%.

Additionally, Regulation (EU) No. 517/2014 phased out some specific applications of fluorinated greenhouse gases according to Annex III in the past. Among others, the following applications may be of relevance for your business; deadline in brackets:

4.	Windows for domestic use that contain fluorinated greenhouse gases	(2007)
5.	Other windows that contain fluorinated greenhouse gases	(2008)
6.	Footwear that contains fluorinated greenhouse gases	(2006)
7.	Tyres that contain fluorinated greenhouse gases	(2007)
8.	One-component foams, except when required to meet national safety standards,	
	that contain fluorinated greenhouse gases with GWP of 150 or more	(2008)
10.	Domestic refrigerators and freezers that contain HFCs with GWP of 150 or more	(2015)
11.	Refrigerators and freezers for commercial use	(2020/22)
16.	Foams that contain HFCs with GWP of 150 or more except when required to meet	
	national safety standards: Other foams than extruded polystyrene (XPS)	(2023)
urthar	applications have restrictions please review the ELL regulation for further details	

Further applications have restrictions, please review the EU regulation for further details.

Version 3. The information contained herein is believed to be accurate as of the date of this document. If any of the above mentioned regulations change after the date of declaration, this information is no longer valid.

The manner in which you use our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products to determine suitability for your processing and intended uses. Your analysis must at least include testing to determine suitability from a technical, health, safety, and environmental and regulatory standpoint. Such testing has not necessarily been done by Covestro, and Covestro has not obtained any approvals or licenses for a particular use or application of the product, unless explicitly stated otherwise.

Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request.

All information and including technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed by you that you assume and hereby expressly release indemnify us and hold us harmless from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

This information is exclusively for our customers and respective competent authorities. It is not intended for reproduction either in printed or electronic form (e.g. via internet) by others. Thus, neither partial nor full reproduction is allowed without written permission from Covestro.

Covestro Deutschland AG D-51365 Leverkusen, Germany Product Safety & Regulatory Affairs

Board of management: Dr. Markus Steilemann (chairman), Dr. Klaus Schäfer, Dr. Thomas Toepfer Chairman of the supervisory board: Dr. Richard Pott

Registered office: 51365 Leverkusen, Local court of Cologne, HRB 49892

Date: 2019-02-01