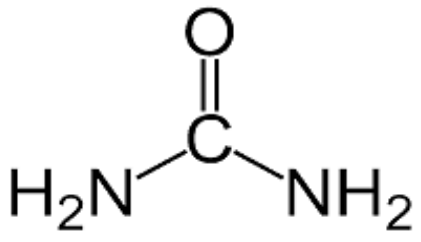


Version	Company	SUBSTANCE IDENTIFICATION PROFILE (SIP)
v.1	FARM Consortium	
23.4.2010	Borealis Agrolinz Melamine GmbH	

No	1.1. Chemical Name	1.2. EC Number	1.3. CAS Number	1.4. Composition Type
1	Urea	200-315-5	57-13-6	Mono-Constituent Substance

This Substance Identification Profile (SIP) is developed to represent the Identification parameters of the Substance described below in line with the Substance Identification requirements of REACH Annex VI and relevant Guidances for the purpose to identify the Substance sufficiently and non-discriminatory to meet the REACH requirements for Registration.

The SIP is developed by the above mentioned Consortium to the best of their knowledge to be used to agree upon being the same substance for the purpose of REACH Registration.

Reference	SI Parameter	Value / Not necessary / Not for SIP	Remark / Justification
2.1.A	Name or other identifiers of the substance		
2.1.1.a	IUPAC Name	Diaminomethanal (as organic compound), Carbonyl diamide (as inorganic compound)	
2.1.1.b	Other International chemical name	Carbamide, carbonyl diamide, carbonyldiamine	
2.1.2.a	Chemical Name	Urea	
2.1.2.b	Abbreviation		
2.1.2.c	Other names		
2.1.3.a	EC Number	200-315-5	
2.1.3.b	EC Name	Urea	
2.1.3.c	EC Description	not available	
2.1.4.a	CAS Number	57-13-6	
2.1.4.b	CAS Name	Urea	
2.1.4.c	CAS Description	not available	
2.1.5.a	IUBMB Number	not applicable	
2.1.5.b	INCI Name	Urea	
2.1.5.c	Other Catalogue identifiers	E 927b	food additive number
2.1.B	Substances (with core identifiers) also falling under this substance (with justification)		
2.1.6.a	Chemical Name	not applicable	
2.1.6.b	EC Number		
2.1.6.c	CAS Number		
2.2	Information related to molecular and structural formula of the substance		
2.2.1.a	Molecular Formula	CH ₄ N ₂ O	
2.2.1.b	Structural Formula		
2.2.1.c	Smiles notation	NC(=O)N	
2.2.2.a	Optical activity	not applicable	
2.2.2.b	Typical ratio of (stereo) isomers	not applicable	
2.2.3.a	Molecular Weight	60.06 g mol ⁻¹	
2.2.3.b	Molecular Weight range		
2.3	Chemical Composition of the substance		
2.3.1	Main Constituent		
2.3.1.a	Name -Main Constituent	Urea	
2.3.1.b	CAS Number -Main Constituent	57-13-6	
2.3.1.c	EC Number -Main Constituent	200-315-5	
2.3.1.d	Concentration range -Main Constituent - Lower value	80%	
2.3.1.e	Concentration range -Main Constituent - Upper value	100%	
2.3.1.f	Typical concentration -Main Constituent (= Degree of purity)	98,5%	
2.3.2	Impurity / Impurities (above 1% or lower if contributing to the hazard or PTB profile)		
2.3.2.a	Agreed strategy for Impurity profile on SIP	SIEF Survey conducted	
2.3.2.1.a	Name	Biuret	
2.3.2.1.b	CAS Number	108-19-0	
2.3.2.1.c	EC Number	203-559-0	
2.3.2.1.d	Molecular Formular	C ₂ H ₅ N ₃ O ₂	
2.3.2.1.e	Concentration range	0 - 2 %	
2.3.2.1.g	Typical concentration	< 1.2 %	
2.3.2.1.h	Hazard	not hazardous	
2.3.3	Additive(s) (above 1% or lower if contributing to the hazard)		
2.3.3.a	Agreed strategy for Additives profile on SIP	The additive profile is not relevant for the SIP	

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Reference	SI Parameter	Value / Not necessary / Not for SIP	Remark / Justification
2.4 Substance sameness checking procedure			
2.4.1	Agreed Spectral data to be used	UV, IR, NMR, MS	The Joint Dossier will include all spectral data indicated in REACH Annex VI 2.3.5. It is advised, that each individual registrant should include these spectral data in his own registration dossier as well.
2.4.2	Agreed Analytical Methods to be used	HPLC, Quantification of urea and biuret according to Regulation (EC) No 2003/2003	The Joint Dossier will include both analytical methods. Justification for waiving Gas Chromatography: As urea will easily decompose under the chromatographic conditions, no GC will be performed. Therefore HPLC is the preferred analytical method.
2.4.3.a	Agreed Verification Method for sameness checking procedure (Consortium)	Survey in Substance Task Force of FARM Consortium	
2.4.3.b	Agreed conditions for the Verification Method (Consortium)	Survey in SIEF	
2.4.3.c	Agreed Verification Method for sameness checking procedure (SIEF)	Survey in SIEF	
2.4.3.d	Agreed conditions for the Verification Method (SIEF)	Survey in SIEF	
2.4.4.a	Agreed role of the SIP in the SIEF	SIP will be used to identify the substance	
2.4.4.b	Agreed person to be suggested as SIEF Formation Facilitator (if applicable)		
2.5 Approval of the SIP			
2.5.1	Agreed approval method for the sameness checking procedure using this SIP (Consortium)	Survey in Substance Task Force of FARM Consortium	
2.5.2	Agreed approval method for the sameness checking procedure using this SIP (SIEF)	Survey in SIEF	

By signing or otherwise approving this Substance Information Profile (SIP), the Company declares that he agrees with the content and purpose of this Substance Identification Profile.

He agrees that his substance does to the best of his knowledge completely fall under the substance identity being represented by the SIP sections 2.1 up to 2.3 sufficient for the purpose of meeting the SIEF requirements and opting for the joint submission Registration dossier to be created by the lead registrant in line with the REACH requirements.

He agrees to fulfil the requirements of the Verification Method described and agreed in the SIP Section 2.4 and takes the appropriate follow-up actions if the substance appears not to fall under the SIP agreed. He agrees that the final result of the Agreed Verification Method for sameness checking procedure is binding.

He agrees that he will inform the Consortium via the Secretariat or the SIEF via the Lead registrant if he has (new) information that might change the content of this SIP or if his Substance is changed in such a way that it might or does no longer fall under the SIP or might potentially have an impact on the content of the Registration dossier

He understands and agrees to be fully responsible for the proper linkage of the substance to the REACH Registration dossier and informing of his supply chain on the safe use of his substance and fulfilling his REACH requirements accordingly.