

SUBSTANCE	Urea
EC NUMBER	200-315-5
CAS NUMBER	57-13-6
Lead Registrant	Borealis Agrolinz Melamine GmbH

30.06.2010

Uses by workers in industrial settings	Description	Sector of Use (SU)	Product Category (PC)	Process Category (PROC)	Environmental Release Category (ERC)	Article Category (AC)
Fertilizer use (EFMA)	Fe1.1, Fe1.2, Fe1.3, Fe1.4, Fe1.5, Fe1.6, Fe1.7, Fe 1.8, Fe2.1, Fe2.2, Fe2.3, Fe2.4, Fe2.5, Fe3.2, Fe3.3	1, 8, 9	12, 19	1, 2, 3, 5, 8a, 8b, 9, 11, 13, 19	1, 2, 6a, 8b, 8e, 9b	
EFMA's use descriptor set:	http://www.efma.org/documents/Fertilizer%20uses%20description%20rev5%20050110.pdf					
Cleaning and maintenance products	Industrial and professional use of laundry products; professional use of dishwash products; professional use of general surface cleaning products; professional use of floor care products; industrial use of food process cleaner; industrial use of foam cleaner; industrial use of animal housing care products; industrial use of water treatment; professional use of hand cleaners.		35, 37	1, 2, 4, 7, 8a, 8b, 9, 10, 11, 13, 19	2, 4, 6b, 8a, 8b, 8d	
Resin and polymers manufacture	urea used as an intermediate for further synthesis. Urea-Formaldehyde, Melamine-Urea-Formaldehyde, Melamine-Urea-Phenol-Formaldehyde and Phenol-Formaldehyde Adhesives. Resins used for production of panelboards, impregnated paper; used in manufacturing of glues, adhesives, sealants; manufacture of coatings and inks, manufacture of rubber products.	8, 9, 10, 11, 23	1, 2, 19, 20, 21	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 11, 15, 21	1, 2, 4, 5, 6a, 6c, 6d, 7	
Waste gas treatment - Nox reduction	Urea solution is used in SNCR and SCR reactions to reduce the NOx pollutants in exhaust gases from combustion. UCN Code: R05000; O05180.	23	0 (UCN Code: R05000; O05180)	1, 2, 3	6b, 8a, 8e, 9b	
Manufacture of textiles, leather, fur	urea solution	5	34	13	4, 5	5
Raw material in the cement, steel and glass industry		13	19, 20	2, 3, 4, 5, 7, 8a, 8b, 9, 10, 19, 22	2, 5, 6b, 8c, 8f	
Production of pharmaceuticals	urea used as an intermediate for further snythesis, reagent, as component of preparations.	9, 10	19, 29	1, 2, 3, 4, 5, 8a, 8b, 9, 15	1, 2, 6A, 7	
Raw material for further synthesis	e.g. manufacture of fine chemicals, melamine, catalyst.	9, 10, 13	19, 20	1, 2, 3, 4, 5, 9, 14	1, 2, 6a, 6b, 6c, 6d, 7	

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Manufacture of fungicides	urea used as intermediate for manufacture of fungicides product; TARIC: 3808 92 30 -Fungicides Based on benzimidazoles	10	8, 27	5	2	0 (TARIC: 3808 92 30 - Fungicides Based on benzimidazoles)
Manufacture of fire resistance products		19	32	5	2, 3	
Use in cosmetic industry	TARIC 3304	10	39	5	8a	0 (TARIC 3304)
Use as nutrient in sewage treatment plants	as source of N for bacteria.	0 (Other:Services, Recycling), 6b, 23	20, 37	2, 4	4, 8a, 6b	
Used as laboratory agent	NACE code M 74 - Other professional, scientific and technical activities.	0 (NACE code M 74)	21	15	8a, 9a	
Use of processing aids	processing aids (e.g. metal and plastic moulding application, laboratory agents); UCN codeR05000 - reduction agents.	0 (Other:Industrial Manufacturing (all))	0 (UCN codeR05000 - reduction agents), 20,21	4, 5, 7, 10, 11, 13, 15, 19, 26	4, 6b, 8a, 8b, 8e	
Plant Protection Products	Industrial formulation and packing; professional and consumer end-use.	10	27	5, 8b, 9	2	
Soil remediation	Electron acceptor soil recovery.	19	20	4	8b	
Mining	Stabilisation in mining and quarries.	2a, 2b	0 (Other:Building and construction preparations not covered elsewhere), 14, 19, 32, 40	0 (Other: Other Process or activity), 1, 2, 3, 4, 5, 8a, 8b, 26	2, 5, 8c, 8f	

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De-icing agent	De-icing of roads and runways surfaces; NACE E38.2	0 (Other:Building and construction preparations not covered elsewhere)	4	8a, 11	8d	
Manufacture and application of powder coatings, all other coatings and inks	manufacture and industrial, professional and consumer application of coatings and inks.	0 (Other:Industrial Manufacturing (all)), 10	18	1, 2, 3, 5, 7, 8a, 8b, 9, 10, 11, 13, 19	2, 4, 5	
Use in biozides		10	8	5	11a	
Uses by professional workers	Description	Sector of Use (SU)	Product Category (PC)	Process Category (PROC)	Environmental Release Category (ERC)	Article Category (AC)
Resin and polymers manufacture	urea used as an intermediate for further synthesis. Urea-Formaldehyde, Melamine-Urea-Formaldehyde, Melamine-Urea-Phenol-Formaldehyde and Phenol-Formaldehyde Adhesives. Resins used for production of panelboards, impregnated paper; used in manufacturing of glues, adhesives, sealants; manufacture of coatings and inks, manufacture of rubber products.	8, 9, 10, 11, 23	1, 2, 19, 20, 21	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 11, 15, 21	1, 2, 4, 5, 6a, 6c, 6d, 7	
Uses by consumers	Description	Sector of Use (SU)	Product Category (PC)	Process Category (PROC)	Environmental Release Category (ERC)	Article Category (AC)
Fertilizer use			12		8e	
Use in cosmetics			39		8a	0 (TARIC 3304)