SAFETY DATA SHEET



1. Identification

Product identifier Other means of identification Recommended use	NDEMAND POST HARVEST PLUS 14-3-3 None. Ag Product - Plant Nutrition	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/Distributor information Manufacturer		
Company name Address	Wilbur-Ellis Company LLC 16300 Christensen Rd. Ste 135 Tukwila, WA 98188 United States	
Telephone E-mail	Branded Products Information SDS@wilburellis.com	(800) 500-1698
Emergency phone number	Chemtrec - Domestic Chemtrec - International	(800) 424-9300 +1 703-741-5970

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Inhalation

Chemical name	Common name and synonyms	CAS number	%
Urea		57-13-6	10 - < 20
Orthoboric Acid		10043-35-3	3 - < 5
EDTA Acid		60-00-4	1 - < 3
Monoethanolamine		141-43-5	1 - < 3
Phosphorous Acid		13598-36-2	1 - < 3
Potassium Carbonate		584-08-7	1 - < 3
Other components below repo	rtable levels		60 - < 70

4. First-aid measures

Not available.

Skin contact	Not available.
Eye contact	Not available.
Ingestion	Not available.
Most important symptoms/effects, acute and delayed	Not available.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Carbon dioxide (CO2). Foam. Dry chemical powder.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Not available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Never return spills to original containers for re-use.

7. Handling and storage

Precautions for safe handling	Not available.
Conditions for safe storage,	Store in original tightly closed container.
including any incompatibilities	

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	
Monoethanolamine (CAS 141-43-5)	PEL	6 mg/m3	
,		3 ppm	
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	Form
Monoethanolamine (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
Orthoboric Acid (CAS 10043-35-3)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to	Chemical Hazards		
Components	Туре	Value	
Monoethanolamine (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	8 mg/m3	
		3 ppm	
US. Workplace Environmen	tal Exposure Level (WEEL) Guides		
Components	Туре	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.
ogical limit values	No biological exposure limits noted for th	e ingredient(s).	
ropriate engineering trols	Not available.		

Individual protection measures, such as personal protective equipment

Eye/face protection	Not available.
Skin protection	
Hand protection	Not available.
Other	Not available.
Respiratory protection	Not available.
Thermal hazards	Not available.

9. Physical and chemical properties

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Appearance	Clear liquid.
Physical state	Liquid.
Form	Liquid.
Color	Colorless
Odor	Amine-like.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Complete
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	10.77 lb/gal
Specific gravity	1.36

10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Not available.
Possibility of hazardous reactions	Not available.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Not available.
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

11. Toxicological information

Information on likely routes of exposure

Information on likely routes of o	exposure		
Inhalation	Not available.		
Skin contact	Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.		
Eye contact	Not available.		
Ingestion	Not available.		
Symptoms related to the physical, chemical and toxicological characteristics	Not available.		
Information on toxicological eff	fects		
Acute toxicity			
Components	Species	Test Results	
EDTA Acid (CAS 60-00-4)			
Acute			
Oral LD50	Rat	4500 ma//re	
		4500 mg/kg	
Monoethanolamine (CAS 141-43- <u>Acute</u>	-5)		
Dermal			
LD50	Rabbit	2881 mg/kg, 24 Hours	
		2.46 - 2.83 ml/kg, 24 Hours	
Inhalation			
Vapor			
LC50	Rat	> 1.3 mg/l, 6 Hours	
Oral			
LD50	Rat	1515 mg/kg	
		1089 mg/kg	
		1.19 ml/kg	
Orthoboric Acid (CAS 10043-35-3	3)		
Acute			
Dermal LD50	Rabbit	> 2000 mg/kg, 24 Hours	
	habbit	> 2000 mg/kg, 24 mouis	
Inhalation Dust			
LC50	Rat	> 2.12 mg/l, 4 Hours	
Aerosol			
LC50	Rat	> 2.03 mg/l, 5 Hours	
Oral			
LD50	Dog	2000 mg/kg	
	Mouse	3450 mg/kg	
	Rat	> 2600 mg/kg	
Phosphorous Acid (CAS 13598-3	6-2)		
<u>Acute</u>			
Oral		4500 <i>#</i>	
LD50	Rat	1580 mg/kg	

Components	Species	Test Results	
Potassium Carbonate (CAS 584-0	08-7)		
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 2000 mg/kg, 24 Hours	
Inhalation			
Dust	Det		
LC50	Rat	> 4.96 mg/l, 4.5 Hours	
Oral LD50	Rat	2000 mg/kg	
	nai	2000 mg/kg	
Urea (CAS 57-13-6) <u>Acute</u>			
Oral			
LD50	Mouse	13000 mg/kg	
	Bat	15000 mg/kg	
	hat		
* Estimates for product may b	be based on additional component data not shown.		
Skin corrosion/irritation	Not available.		
Serious eye damage/eye irritation	Not available.		
Respiratory or skin sensitization	n		
Respiratory sensitization	Not available.		
Skin sensitization	Not available.		
Germ cell mutagenicity	Not available.		
Carcinogenicity			
Not listed. OSHA Specifically Regulate Not regulated.	Evaluation of Carcinogenicity ed Substances (29 CFR 1910.1001-1050) ogram (NTP) Report on Carcinogens		
Not listed.	Sgram (MT) heport on Carcinogens		
Reproductive toxicity	Not available.		
Specific target organ toxicity - single exposure	Not available.		
Specific target organ toxicity - repeated exposure	Not available.		
Aspiration hazard	Not available.		
Chronic effects	May be harmful if absorbed through skin.		
	Prolonged or repeated exposure may cause liver and kidney damage. These effects have not		
	been observed in humans.		
Further information	This product has no known adverse effect on huma	an health.	
12. Ecological information	1		
Ecotoxicity	No ecotoxicity data noted for the ingredient(s).		
Persistence and degradability	Not available.		
Bioaccumulative potential	Not available.		
Mobility in soil	Not available.		
Other adverse effects	Not available.		
13. Disposal consideratio	20		

13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations	Dispose in accordance with all applicable regulations.		
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste		
Waste from residues / unused products	disposal company. Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).		
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings, if applicable, even after container is emptied.		
14. Transport information			
DOT			
Not regulated as dangerous g	oods.		
Not regulated as dangerous g	oods.		
Not regulated as dangerous g	oods.		
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available.		
15. Regulatory information			
US federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.		
TSCA Section 12(b) Export I	Notification (40 CFR 707, Subpt. D)		
Not regulated.			
CERCLA Hazardous Substa			
EDTA Acid (CAS 60-00-4 SARA 304 Emergency releas			
Not regulated.			
	d Substances (29 CFR 1910.1001-1050)		
U	authorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No		
SARA 302 Extremely hazard Not listed.	lous substance		
SARA 311/312 Hazardous chemical	No		
SARA 313 (TRI reporting) Not regulated.			
Other federal regulations			
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List		
Not regulated.	112(r) Accidental Release Prevention (40 CFR 68.130)		
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
US state regulations			
US. California. Candidate Cl (a))	nemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.		
Orthoboric Acid (CAS 100	043-35-3)		
	Vater and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain		
·	sted as carcinogens or reproductive toxins.		
Material name: NDEMAND POST HA	RVEST PLUS 14-3-3 SDS U 12-04-2017 Issue date: 01-26-2015 6/		

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	01-26-2015
Revision date	12-04-2017
Version #	03
NFPA ratings	Health: 0 Flammability: 0 Instability: 0
NFPA ratings	0

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