

Raw Material Blend (46-0-0)

	1. Product and Comp	pany Identification		
Product Code: Product Name:	904398 ALLIED NUTRIENTS LIELEXX	Manufacturing Raw Material Blend (46-0-0)		
Company Name:	Allied Nutrients 50 Pearl Road STE 200 Brunswick, OH 44212	Phone Number: (888)220-0013		
Web site address: Email address:	www.alliednutrients.com regulatory@alliednutrients.com			
Emergency Contact:	PERS	(800)633-8253		
Information:	Allied Nutrients	(330)220-0524		
Synonyms:	Granular Fertilizer			
	2. Hazards Ide	entification		
Acute Toxicity: Oral, Category 4				



GHS Signal Word:	Warning
GHS Hazard Phrases:	Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause repiratory irritation. May cause damage to respiratory system and lungs through prolonged or repeated exposure.
GHS Precautionary Phrases:	Avoid breathing dust. Wear protective gloves, protective clothing, and eye protection. Call a POISON CENTER or doctor/physician if you feel unwell.
GHS Response Phrases:	If eye irritation persists, get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
GHS Storage and Disposal Phrases:	Store in a diked or contained area to prevent uncontrolled release to the environment. Store in a closed container. If material cannot be completely used according to label directions, dispose of container and contents according to section 13.
Potential Health Effects (Acute and Chronic):	Chronic: Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated exposure may cause permanent eye damage. Chronic exposure may cause lung damage. Effects may be delayed.
Inhalation:	May be harmful if inhaled. Low hazard for normal industrial handling. The toxicological properties of this substance have not been fully investigated. May cause systemic effects. Material may be irritating to mucous membranes and upper respiratory tract.
Skin Contact:	May cause skin irritation. Dust causes mechanical irritation. Low hazard for usual industrial handling.
Eye Contact:	May cause eye irritation. Dust may cause mechanical irritation.
Ingestion:	May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Low hazard for normal industrial handling. The toxicological properties of this substance have not been fully investigated. May cause systemic effects.

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3. Composition/Information on Ingredients				
CAS #	Hazardous Comp	onents (Chemical Name)	Concentration	
57-13-6	Urea		60.0 - 100 %	
461-58-5	Dicyandiamide		0.500 - 1.50 %	
872-50-4	N-Methyl-2-pyrrolic	done	0 - 0.100 %	
		4. First Ai	d Measures	
Emergency a Procedures:	nd First Aid			
In Case of Inl	halation:	•	move to fresh air immediately. If not breathing, give artificial fficult, give oxygen. Get medical aid.	
In Case of Sk	in Contact:	Get medical aid if irritation develops or persists. In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse. Wash off with soap and plenty of water.		
In Case of Ey	e Contact:		ater for at least 15 minutes, occasionally lifting the upper and aid. Do NOT allow victim to rub eyes or keep eyes closed.	
In Case of Ing	gestion:	poison control center. If swa	conscious and alert, give 2-4 cupfuls of milk or water. Call a allowed, do NOT induce vomiting unless directed to do so by ive anything by mouth to an unconscious person.	
Signs and Sy Exposure:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.			
Note to Phys	ician:	Treat symptomatically and s	supportively.	
		5. Fire Fight	ing Measures	
Flash Pt:		No data.		
Explosive Lir	nits:	LEL: No data.	UEL: No data.	
Autoignition	Pt:	No data.		
Suitable Exti	Suitable Extinguishing Media:For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray.			
Fire Fighting	<b>re Fighting Instructions:</b> As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible. Decomposes at high temperatures, resulting in toxic and corrosive products. Runoff from fire control or dilution water may cause pollution.		equivalent), and full protective gear. Substance is es at high temperatures, resulting in toxic and corrosive ontrol or dilution water may cause pollution.	
Flammable P Hazards:	roperties and	Most of the components of t may support combustion at	his product are non-combustible. However, a portion of them elevated temperatures.	
Hazardous C	ombustion		result in the production of ammonia, formaldehyde, biuret,	
Products:	roducts:chlorine, cyanic acid, and cyanide, and oxides of carbon, nitrogen, phosphorus, potassium, sulfur, and chlorine, and oxides of alkaline earth metals, and certain heavi metals used as nutrients in fertilizer products, such as copper, iron, manganese, and zinc, and other toxic and irritating fumes and gases.			

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	6. Accidental Release Measures
Steps To Be Taken In Case Material Is Released Or Spilled:	Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Avoid runoff into storm sewers and ditches which lead to waterways. Do not let this product enter the environment except as directed on product label. Clean up spills immediately, observing precautions in the Protective Equipment section.
	Personal precautions. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
	Environmental precautions. Do not let product enter drains.
	Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.
	PROCEDURES & PERSONAL PRECAUTIONS. Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.
	Methods for cleaning up. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.
	7. Handling and Storage
Precautions To Be Taken in Handling:	Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling. Use only in a well-ventilated area. Keep container tightly closed. Wash clothing before reuse.
	Provide appropriate exhaust ventilation at places where dust is formed.
Precautions To Be Taken in Storing:	Store in a cool, dry place. Keep container closed when not in use.
8	. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
57-13-6	Urea	No data.	No data.	No data.
461-58-5	Dicyandiamide	TWA: 5 mg/m3	CEIL: 5 mg/m3 (salts)	No data.
872-50-4	N-Methyl-2-pyrrolidone	No data.	No data.	No data.

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Respiratory Equipment (Specify Type):	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.
Eye Protection:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure. Wash and dry hands.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Engineering Controls (Ventilation etc.):	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Wash thoroughly after handling.
	9. Physical and Chemical Properties
Physical States:	[]Gas []Liquid [X]Solid
Appearance and Odor:	Multi-colored, granular solid. Slight ammonia-like odor.
pH:	No data.
Melting Point:	~ 133 C
Boiling Point:	No data.
Flash Pt:	No data.
Evaporation Rate:	No data.
Flammability (solid, gas):	No data available.
Explosive Limits: Vapor Pressure (vs. Air or	LEL: No data. UEL: No data. No data.
mm Hg):	
Vapor Density (vs. Air = 1):	No data.
Specific Gravity (Water = 1):	No data.
Bulk density:	~ 45 - 65 LB/CF
Solubility in Water:	~ 1,079 G/L at 20.0 C
Solubility Notes:	The solubility cited is for the urea component of this product, if present. See section 3.
Octanol/Water Partition Coefficient:	No data.
Autoignition Pt:	No data.
Decomposition Temperature	: ~ 135 C
Viscosity:	No data.
Additional Physical Information	The melting point and decomposition temperatures cited are for the urea component of this product, if present. See section 3. Urea decomposes before boiling. (UNEP Publication, OECD SIDS UREA, CAS No: 57-13-6)



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10. Stability and Reactivity						
Stability:		Unstable [ ] Stable [ X ]				
Conditions T Instability:	o Avoid -	Incompatible materials, dust generation, heating to decomposition. High temperatures			emperatures.	
Incompatibili Avoid:	compatibility - Materials To Strong oxidizing agents, bases, acids, aluminum. void:					
Hazardous D Byproducts:	ecomposition o	or The decomposition of fertilizer products may result in the generation of some or all of the following: ammonia, formaldehyde, biuret, chlorine, cyanic acid, and cyanide, and oxide of carbon, nitrogen, phosphorus, potassium, sulfur, and chlorine, and oxides of alkaline earth metals, and certain heavier metals used as nutrients in fertilizer products, such as copper, iron, manganese, and zinc, and other irritating and toxic fumes and gases.				ide, and oxides les of alkaline ducts, such as
Possibility of Reactions:	Hazardous	Will occur [ ] Will not occur	r[X]			
Conditions T Hazardous R		No data available.				
		11. Toxicological	Informatio	n		
Toxicologica	I Information:	Epidemiology: No information for Teratogenicity: Teratogenic effe Neurotoxic effects have occurre Reproductive toxicity - no data a Inhalation: May cause damage t	cts have occurre d in experimenta available.	al animals.		
Carcinogenio Information:	city/Other	This material may contain small amounts of respirable crystalline and amorphous silica The International Agency for Cancer Research (IARC) has classified crystalline silica as a carcinogen to humans (Group 1), and amorphous silica as not classifiable as to its carcinogenicity to humans (Group 3). See "Silica, Some Silicates, Coal dust and para-Aramid Fibrils in IARC Monographs on the Evaluation of Carcinogenic Risks to Humans", (Vol. 68).				talline silica as le as to its ust and
CAS #	Hazardous Con	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
57-13-6	Urea		n.a.	n.a.	n.a.	n.a.
461-58-5	Dicyandiamide		n.a.	n.a.	n.a.	n.a.
872-50-4	N-Methyl-2-pyrro	lidone	n.a.	n.a.	n.a.	n.a.
		12. Ecological I	nformation			
General Ecological Information:		Environmental: If released to the atmosphere, urea will degrade rapidly in the vapor-phase by reaction with photochemically produced hydroxyl radicals (half-life of 9.6 hr). If released to soil, urea is hydrolyzed to ammonium through soil urease activity (the basis of its use as a fertilizer). The rate of hydrolysis can be fast (24 hr); however, a number of variables (such as increasing the pellet size of the fertilizer) can decrease the degradation rate.				
Do not empty into drains.						
		Urea will dissolve and disperse degrade water quality and taste affect water quality.			-	•
Persistence and No data and Degradability:		No data available.				
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Bioaccumul	ative Potential:	No data available.		,		
Mobility in S	Soil:	No data available.				
_		13. Disposal Considerations				
Waste Dispo	osal Method:	If material cannot be completely used according to label directions, dispose of containe and contents according to this section.				
		Contact a licensed professional waste disposal service to dispose of this material.				
		Do not let product enter drains.				
		Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.				
		RCRA P-Series: None listed. RCRA U-Series: None listed.				
		Observe all federal, state, a	and local environme	ental regulations.		
		14. Transpo	rt Informatio	n		
EPA SARA (	Superfund Amendr	15. Regulato nents and Reauthorization Act		on		
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
57-13-6	Urea		No	No	No	
461-58-5	Dicyandiamide		No	No	Yes-Cat. N106	
872-50-4	N-Methyl-2-pyrro	lidone	No	No	Yes	
This materia	al meets the EPA	'Hazard Categories' define	d for SARA Title I	II Sections 311/3	12 as indicated:	
[]Yes [X] No	•			e toxicity (any route of	exposure)	
[ ] Yes [X] No [ ] Yes [X] No		erosols, liquid, or solid) or gas)		Corrosion or Irritation ous eye damage or eye	e irritation	
[]Yes [X] No				piratory or Skin Sensiti		
[] Yes [X] No		solid)		n cell mutagenicity		
[]Yes [X] No				cinogenicity		
[ ] Yes [X] No [ ] Yes [X] No				roductive toxicity	ty (single or repeated exposure	
[] Yes [X] No				ration Hazard	, angle of repeated exposure	
[]Yes [X] No		compressed gas)		ole Asphyxiant		
[]Yes [X] No		er emits flammable gas [] Yes [X] No (Health) Hazard Not Otherwise Classified (HNOC)				
[ ] Yes [X] No [ ] Yes [X] No		t Otherwise Classified (HNOC)				
CAS #		ponents (Chemical Name)	Other US EPA o	r Stato Liste		
57-13-6	Urea	ipononto (onennoal Manie)		No; CWA NPDES:	No: TSCA: Yes -	
01-10-0	Urca		Inventory, 8A CA	IR; CA PROP.65: N	No; MA Oil/HazMat: No; NY Part 597: No; PA HSL:	
461-58-5	Dicyandiamide			Yes - Cat.; CWA N	PDES: No; TSCA: Yes -	



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		Inventory; CA PROP.65: No; MA Oil/HazMat: No; MI CMR,			
		Part 5: Yes - Cat.; NJ EHS: Yes - Cat.; NY Part 597: No; PA			
		HSL: No			
872-50-4	N-Methyl-2-pyrrolidone	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -			
		Inventory, 6A; CA PROP.65: Yes: RDTox.; MA Oil/HazMat:			
		No; MI CMR, Part 5: No; NJ EHS: Yes - 3716; NY Part 597:			
		No; PA HSL: Yes - 1			
16 Other Information					

#### 16. Other Information

R	evision Date:	09/21/2020	
H	lazard Rating System:		Flammability Instability Health NFPA: Special Hazard

Additional Information About No data available.

This Product:

Company Policy or Disclaimer: Disclaimer and Limitation of Liability: This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and Allied Nutrients disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purposes.