TRADEMARK NITROGEN

(800) 424-9300



SAFETY DATA Substain-N[®] 30-0-0

Section 1 – Identifie	cation					
Product	Substain-N® 30-0-0	Recommended Use:				
		Used as a fertilizer in agricultural applicaltions.				
Manufacturer	TradeMark Nitrogen Corp.					
Address	1216 Old Hopewell Road, Tampa, FL 33619					
Phone	(813) 626-1181					
24 Hour Emergency	Chemtrec					

Section 2 – Hazard Identification



Contact

Signal Word: WARNING

Hazard Statements

H303 May be harmful if swallowedH315 Causes skin irritationH320 Causes eye irritationH335 May cause respiratory irritation

Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103 Read label before use

P264 Wash hands thoroughly after handling

P280 Wear eye protection, protective clothing, protective gloves

P301+P330 IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell

P302+P352 IF ON SKIN: Wash with plenty of water

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P332+P313 If skin irritation occurs: Get medical advice / attention

P337+P313 If eye irritation persists: Get medical advice / attention

P501 Dispose of contents / container according to local, regional, national, and international regulations

Section 3 – Compo	sition		
Ingredients	Component	CAS. No.	EINECS No.
A proprietary aqueous solution of;	Urea (CO(NH ₂) ₂)	57-13-6	200-315-5
	Triazone N-[(tetrahydro-4-oxo- 1,3,5-triazin-1(2H)- yl)methyl]	146963-06-6	230-406-5
	Water	773-18-5	231-791-2

Section 4 – First Ai	d Measures
Inhalation	If inhaled: Remove person to fresh air and keep comfortable for breathing. Provide artificial respiration if necessary. Seek medical attention if necessary.
Skin Contact	If on skin (or hair): Take off all contaminated clothing. Rinse skin with soap and water for at least 15 minutes. Seek medical attention if irritation persists. Wash contaminated clothing before reuse.
Eye Contact	If in eyes: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.
Ingestion	If swallowed: Do NOT induce vomiting unless directed to do so by medical personnel. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Never give anything by mouth to an unconscious person. Seek medical attention.
Acute Health Hazards	May cause mild eye irritation. Prolonged skin contact may cause irritation with redness and itching. Inhalation of mists may cause upper respiratory tract irritation. Swalling large amounts may cause gastric irritation.
Chronic Health Hazards	None expected under normal conditions. Prolonged skin contact may result in dermititus (inflamation and redness of skin).

Section 5 – Fire Fig	hting Measures
Suitable Extinguishing	Not combustible or reactive, use extinguishing media suitable for surrounding material. Wear self-contained breathing apparatus and full protective
Techniques &	gear.
Equipment	
Chemical Hazards From Fire	In a fire this material may decompose and produce carbon oxides, oxides of nitrogen and ammonia.
Special Fire Fighting Procedures	Use extinguishing agent most appropriate to surrounding materials.
NFPA Rating	Health - 1 (Slight)
	Fire - 0 (Least)
	Reactivity - 0 (Least)

Other	Do not allow run-off from fire fighting to enter drains or water courses.
Section 6 – Accide	ntal Release Measure
Personal Precautions	Avoid splashing. Prevent exposure to spilled material with the use of proper PPE.
Protective Equipment	PPE should include gloves, goggles and protective clothing.
Containment	Avoid release to environment. Control the flow of product using dikes of soil, sand bags or other commercially available inert sorbent socks or booms.
In Case of Spill	Absorb product with inert absorbent. Avoid splashing or spraying. Contain and pick up spill in diked area. Prevent discharge to sewers or water ways. If uncontaminated, recover and re-use.
Section 7 – Safe Ha	andling & Storage
Precautions for Safe Handling & Storage	Store in a well ventilated cool dry place. Containers should be kept closed and properly labeled. Keep away from open flames, hot surfaces and sources of ignition. No smoking, eating or drinking while using this product. Avoid all unnecessary exposure. Do not breathe mist, vapor or spray. Store IBC's and other similar containers at moderate temperature (less than 105F / 41C). Keep out of direct sunlight.
Incompatibility	Store away from incompatable materials.
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Section 8 – Exposure Controls / Personal Protection

Exposure Limits	Component	Permissible Exposure Limit	Threshold Limit Value	Short Term Exposure Limit	Immediately Dangerous to Life or Health					
	Urea (CO(NH ₂) ₂)	Not Established	Not Established	Not Established	Not Established					
	US. Workplace Environmental Exposure Level (WEEL) Guides:									
	Component:	Туре:	Value:	Form:						
	Urea	TWA	10 mg/m ³							
	(CAS 57-13-6)		-							
Engineering Controls	Local or general exh	aust. Eyewash and eme	ergency shower fac	cilities should be av	vailable.					
Personal Protective	Eyes	Chemical safety goggl	les or safety glasse	es with side shields	3.					
Equipment	Hands	Impervious chemical p	protective gloves.							
	Respiratory Protective Clothing	None required under r	normal conditions.	NIOSH approved r	espirator if there is a mist of the product.					
	Mis)	GN								
		V								
	Gloves	Protective Clothing	Goggles	Respiratory Prote	ection					
Section 9 – Physica				Creatific Creatity	4.00 @ 0015 (0010)					
Appearance and Odor	amine-like odor.	d may nave a slight		Specific Gravity	1.26 @ 68°F (20°C) (typical)					
Boiling Point	219°F at 1 atmosphe	ere (104.4°C)		Molecular Weight	Not Applicable					
Freezing Point	No Data Available			Solubility in Water	Miscible in water					
Vapor Pressure	No Data Available			Flash Point	Not flammable					
Weight per Gallon	10.5 lbs/gal @ 68°F	(typical)		pH	9 - 11 (typical)					
Gallons per Ton	190 gal / ton			Salt-Out Temp	<0°F (-17°C)					
Flammability Limits	Not Applicable			Auto Ignition Temp	Not Flammable					
UEL	Not Applicable			LEL	No Data Available					
Section 10 – Stabili	ty & Reactivity									
Reactivity			ons. Avoid interact	ion with heat (flam	es), oxidizers, acids or alkalis.					
Stability		der normal conditions.								
Hazardous Reactions	II mixed with chlorine	e or nypochionies, it ma	ly form nitrogen tric	chioride which may	explode spontaneously in air.					
Conditions to Avoid	Keep away from dire	ect heat sources. Avoid	direct sunlight. Avo	bid extreme high te	mperatures and extreme low temperatures. Keep from freezing.					
Incompatible Materials	Strong oxidizing materials, strong acids, halogenated compounds, copper, zinc and their alloys, including brass, bronze and galvanized materials. Contact your sales representative or a metallurgical specialist to ensure compatability with your equipment.									
Hazardous Decomposition Products	Extreme heat may cause decomposing to carbon oxides, ammonia and nitrogen oxides.									
Section 11 – Toxico	logy Information									
	Inhalation, ingestion									
Routes of Exposure										
	Eves	Mild eve irritation								
Symptoms and Signs	Eyes Skin	Mild eye irritation. Mild irritant.								
Symptoms and Signs	•	-	r tract and mucous	membranes.						
Routes of Exposure Symptoms and Signs of Exposure	Skin	Mild irritant.			noglobinemia.					
Symptoms and Signs	Skin Inhalation Ingestion	Mild irritant. May irritate respiratory	pain, vomiting, dia	rrhea and methem	oglobinemia.					

Acute Toxicity	Product Urea	Criteria LD50 Oral	Species Rat - Male, Female	Dose 8,471 mg / kg	
Specific Target Organ Toxicity (Single Exposure)	No Data Available				
Specific Target Organ Toxicity (Repeated Exposure)	No Data Available				
Exposure Symptoms					
	Eye contact:	Irritation, watering			
	Inhalation:	May cause respiratory irriation			
	Skin Contact:	May cause mild skin irritation			
	Ingestion:	Over exposure by inge stomach pains, diarrhe		der normal working	g conditions. Adverse symptoms may include nausea or vomiting,
Potential Chronic Health Effects					
	General	No known significant e	effects or critical ha	zards	
	Carcinogenicity	Not classified			
	Mutagenicity	Not classified			
	Teratogenicity	Not classified			
	Developmental Effects	Not classified			
	Fertility Effects	Not classified			
Section 12 – Ecolog Water					
	High concentrations	may be harmful to fish a	and other aquatic o	rganisms.	
Ecotoxicity	-	·		-	_
Ecotoxicity	Product	Criteria	Result	Species	Exposure
Ecotoxicity	-	·		-	48 hours
Ecotoxicity	Product	Criteria	Result 3910000 µg/l	Species Daphnia - Daphnia Magna -	48 hours
Ecotoxicity	Product	Criteria Acute EC50	Result 3910000 μg/l fresh water 1,000 mg/l	Species Daphnia - Daphnia Magna - Neonate Crustaceans - Chaetogammaru s marinus -	48 hours
Ecotoxicity	Product	Criteria Acute EC50 Acute LC50	Result 3910000 µg/l fresh water 1,000 mg/l Marine Water 5,000 µg/l fresh	Species Daphnia - Daphnia Magna - Neonate Crustaceans - Chaetogammaru s marinus - young Fish - Colisa Fasciata - Fingerling	48 hours 48 hours
Ecotoxicity	Product	Criteria Acute EC50 Acute LC50 Acute LC50	Result 3910000 µg/l fresh water 1,000 mg/l Marine Water 5,000 µg/l fresh water	Species Daphnia - Daphnia Magna - Neonate Crustaceans - Chaetogammaru s marinus - young Fish - Colisa Fasciata - Fingerling Fish - Heteropneustes	48 hours 48 hours 96 Hours
Ecotoxicity Persistence and Degradability	Product Urea	Criteria Acute EC50 Acute LC50 Acute LC50 Chronic NOEC	Result 3910000 µg/l fresh water 1,000 mg/l Marine Water 5,000 µg/l fresh water 2 g/L Fresh water >6810 mg/l	Species Daphnia - Daphnia Magna - Neonate Crustaceans - Chaetogammaru s marinus - young Fish - Colisa Fasciata - Fingerling Fish - Heteropneustes fossils	48 hours 48 hours 96 Hours 30 days
Persistence and	Product Urea Product is biodegrad	Criteria Acute EC50 Acute LC50 Acute LC50 Chronic NOEC LC50	Result 3910000 µg/l fresh water 1,000 mg/l Marine Water 5,000 µg/l fresh water 2 g/L Fresh water >6810 mg/l merobic conditions.	Species Daphnia - Daphnia Magna - Neonate Crustaceans - Chaetogammaru s marinus - young Fish - Colisa Fasciata - Fingerling Fish - Heteropneustes fossils Leuciscus Idus	48 hours 48 hours 96 Hours 30 days
Persistence and Degradability Bioaccumulative	Product Urea Product is biodegrad	Criteria Acute EC50 Acute LC50 Acute LC50 Chronic NOEC LC50 table under aerobic & an	Result 3910000 µg/l fresh water 1,000 mg/l Marine Water 5,000 µg/l fresh water 2 g/L Fresh water >6810 mg/l merobic conditions.	Species Daphnia - Daphnia Magna - Neonate Crustaceans - Chaetogammaru s marinus - young Fish - Colisa Fasciata - Fingerling Fish - Heteropneustes fossils Leuciscus Idus	48 hours 48 hours 96 Hours 30 days

Section 13 – Dispos Waste			nvironment Keen out	of sewers and water	vavs					
Waste	This material is harmful to the aquatic environment. Keep out of sewers and waterways.									
	Disposal must labeling.	Disposal must be done in accordance with local, state and federal environmental regulations. Place waste in an appropriate container with correct labeling.								
Additional Information	Dispose of used containers at an approved waste handling facility. Empty containers may contain residue of the product, follow label warnings even after container is emptied.									
Section 14 – Trans	oort Informatio	on								
ТООТ	Not regulated a	as dangerous goods								
MDG	Not regulated a	as dangerous goods								
ATA	Not regulated a	as dangerous goods								
DG	Not regulated a	as dangerous goods								
Mexico Classification	Not regulated a	as dangerous goods								
Section 15 – Regula	atory Informat	ion								
Jnited States - SARA lazard Category		as been reviewed accord ind Reauthorization Act (311 and 312 of Title III of he following categories:	the Superfund			
	Fire - No	Pressure - No	Reactive - No	Acute - No	Chronic - No					
SARA Title III nformation	This product contains the following substances subject to the reporting requirements of Title III (EPCRA) of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:									
	Chemical	CAS No.	CERCLA RQ (lbs.)	SARA Reporting						
				302	304	313				
	Urea	57-13-6	N/A	N/A	N/A	N/A				
CERCLA / Superfund, 40 CFR Part 117, 302	above table wit		s. If there is a release	0		RQ) Substances, it will b ication to the National R	0			
ISCA	All components	s of this product are liste	d on the Active TSCA	inventory.						
Section 16 – Other	Information									
ssue Date	7/3/2025									
Date of Revision		updated to include new C armonization Standards.	CAS number and form	ulation. May 2024 revi	ision prepared in acco	ordance with 29 CFR 19	10.1200 Appendix D			
Disclaimer	This informatio persons posses and no liability	n is furnished free of cha ssing technical knowledg	rge and is based on d ge at their own discreti rk Nitrogen Corp. in co	ata believed to be act on and risk. Since act onjunction with the use	curate and reliable as tual use is beyond ou e of this information. I	e to any process or use w of the date hereof. It is i r control, no warranty, ex Nothing herein is to be co	intended for use by pressed or implied, onstrued as a			

recommendation to infringe any patents. TradeMark Nitrogen Corp. assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.