

SAFETY DATA SHEET

Substain-N® 26-0-0

Section 1 - Identification

Product Substain-N® 26-0-0

Used as a fertilizer in agricultural applicaltions.

Recommended Use:

Manufacturer TradeMark Nitrogen Corp.

Address 1216 Old Hopewell Road, Tampa, FL 33619

 Phone
 (813) 626-1181

 24 Hour Emergency
 Chemtrec

 Contact
 (800) 424-9300

Section 2 - Hazard Identification



Signal Word: WARNING

Hazard Statements

H303 May be harmful if swallowed

H315 Causes skin irritation

H320 Causes eye irritation

H335 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 - Composition

	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 Fighting Measures

Suitable Extinguishing
Techniques &
Equipment

Not combustible or reactive, use extinguishing media suitable for surrounding material. Wear self-contained breathing apparatus and full protective gear.

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

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 -		

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 Handling & 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.

Section 8 - Exposure Controls / Personal Protection

Exposure Limits

Component

Permissible Exposure Threshold Limit

Value

Short Term Exposure Limit

Immediately Dangerous

to Life or Health

Urea

Not Established

Limit

Type:

TWA

Not Established Not Established Not Established

(CO(NH₂)₂)

US. Workplace Environmental Exposure Level (WEEL) Guides:

Component:

Value: 10 mg/m³

Form:

Urea

(CAS 57-13-6)

Local or general exhaust. Eyewash and emergency shower facilities should be available.

Personal Protective Equipment

Engineering Controls

Eyes

Chemical safety goggles or safety glasses with side shields.

Hands

Impervious chemical protective gloves.

Respiratory

None required under normal conditions. NIOSH approved respirator if there is a mist of the product.

Protective Clothing









Gloves

Protective Clothing

Goggles

Respiratory Protection

ect	ion (9 – P	hvs	cal	-& (CI	nemi	ca	P	'no	per	π	as

Appearance and Odor Clear, colorless liquid may have a slight amine-like odor.

Boiling Point

219°F at 1 atmosphere (104.4°C)

No Data Available

No Data Available

Weight per Gallon 10.7 lbs/gal @ 68°F (typical) Gallons per Ton 187 gal / ton

Flammability Limits Not applicable

UFL Not applicable Specific Gravity 1.29 @ 68°F (20°C)

(typical) Not applicable Molecular

Weight

Solubility in Miscible in water Water

Flash Point Not flammable рΗ 9 - 11 (typical)

Salt-Out Temp 0°F (-15 - -17°C) Auto Ignition Not Flammable

Temp

LEL No Data Available

Section 10 - Stability & Reactivity

Stability

Product is not reactive under normal conditions. Avoid interaction with heat (flames), oxidizers, acids or alkalis.

Product is stable under normal conditions.

Hazardous Reactions

Reactivity

Freezing Point

Vapor Pressure

If mixed with chlorine or hypochlorites, it may form nitrogen trichloride which may explode spontaneously in air.

Keep away from direct heat sources. Avoid direct sunlight. Avoid extreme high temperatures and extreme low temperatures. Keep from freezing. Conditions to Avoid

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

Extreme heat may cause decomposing to carbon oxides, ammonia and nitrogen oxides.

Decomposition Products

of Exposure

Routes of Exposure

Section 11 - Toxicology Information

Symptoms and Signs Mild eye irritation. Eyes

Skin

Inhalation, ingestion

Inhalation May irritate respiratory tract and mucous membranes.

Mild irritant.

Ingestion Can cause abdominal pain, vomiting, diarrhea and methemoglobinemia.

Long Term Effects Methemoglobinemia is the primary long-term health effect of over-exposure.

Toxicity No limits have been set for this material. **Acute Toxicity** Product Criteria Species Dose LD50 Oral Rat - Male. Urea 8,471 mg / kg Female

Specific Target Organ

Toxicity (Single Exposure)

No Data Available

Specific Target Organ No Data Available Toxicity (Repeated Exposure)

Exposure Symptoms

Eye contact: Irritation, watering Inhalation: May cause respiratory

irriation

Skin Contact: May cause mild skin

irritation

Ingestion: Over exposure by ingestion is unlikely under normal working conditions. Adverse symptoms may include nausea or vomiting,

stomach pains, diarrhea.

Potential Chronic Health Effects

Ecotoxicity

General No known significant effects or critical hazards

Carcinogenicity Not classified Mutagenicity Not classified Teratogenicity Not classified Developmental Not classified

Effects

Fertility Effects Not classified

California Prop 65 WARNING: This product is not listed on the California Prop 65 database. For more information go to www.p65warnings.ca.gov

Section 12 - Ecological Information

Water High concentrations may be harmful to fish and other aquatic organisms.

Product Criteria Result Species Exposure 3910000 µg/l Daphnia -Urea Acute EC50 48 hours fresh water Daphnia Magna -

Neonate

Acute LC50 1,000 mg/l Crustaceans -48 hours

Marine Water Chaetogammaru s marinus young

Fish - Colisa Acute LC50 5,000 µg/l fresh 96 Hours

> water Fasciata -Fingerling

Chronic NOEC 2 g/L Fresh water Fish -30 days

Heteropneustes

fossils

LC50 >6810 mg/l Leuciscus Idus 96 Hours

Persistence and Product is biodegradable under aerobic & anerobic conditions. Degradability

Bioaccumulative The potential for bioconcentration in aquatic organisms is expected to be low. potential

Mobility in soil No data available for this product.

Other adverse effects Harmful to aquatic life. Harmful to the environment if released in large quantities. Excessive nutrient runoff to a body of water may result in

eutrophication.

Section 13 - Disposal Considerations

Waste This material is harmful to the aquatic environment. Keep out of sewers and waterways.

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 - Transport Information

DOT Not regulated as dangerous goods

IMDG Not regulated as dangerous goods

IATA Not regulated as dangerous goods

TDG Not regulated as dangerous goods Mexico Classification

Not regulated as dangerous goods

Section 15 - Regulatory Information

United States - SARA **Hazard Category**

This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (SARA) and is considered, under applicable definitions, to meet the following categories:

Fire - No Reactive - No Pressure - No Acute - No Chronic - No

SARA Title III Information

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 SARA Reporting

(lbs.)

302 304 313

57-13-6 N/A Urea N/A N/A N/A

CERCLA / Superfund. 40 CFR Part 117, 302 If this product contains components subject to substances designated as CERCLA reportable Quantity (RQ) Substances, it will be designated in the above table with the RQ value in pounds. If there is a release of RQ Substance to the environment, notification to the National Response Center, Washington DC (800-424-8802) is required.

TSCA All components of this product are listed on the Active TSCA inventory.

Section 16 - Other Information

Issue Date 7/3/2025

Date of Revision

July 2025 SDS updated to include new CAS number and formulation. May 2024 revision prepared in accordance with 29 CFR 1910.1200 Appendix D to meet Global Harmonization Standards.

Disclaimer

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