

Certified Wastewater Nutrients C

High-Purity Standards

Catalogue number: CWW-N-C

Version No: 1.1 Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

SECTION 1 IDENTIFICATION

Product Identifier

Product name	Certified Wastewater Nutrients C
Synonyms	CWW-N-C
Other means of identification	CWW-N-C

Recommended use of the chemical and restrictions on use

Relevant identified uses Use according to manufacturer's directions.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	High-Purity Standards
Address	PO Box 41727 Charleston, SC 29423 United States
Telephone	843-767-7900
Fax	843-767-7906
Website	highpuritystandards.com
Email	Not Available

Emergency phone number

Association / Organisation	INFOTRAC
Emergency telephone numbers	1-800-535-5053
Other emergency telephone numbers	1-352-323-3500

SECTION 2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

Classification	Carcinogenicity Category 2
Label elements	
Hazard pictogram(s)	
SIGNAL WORD	WARNING
Hazard statement(s)	
	Suspected of causing cancer.
H351	
H351 Hazard(s) not otherwise spec Not Applicable	
Hazard(s) not otherwise spec	ified

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S.GHS.USA.EN

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P308+P313 IF exposed or concerned: Get medical advice/attention. Precautionary statement(s) Storage P405 Store locked up. Precautionary statement(s) Disposal P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
7632-00-0	0.125	sodium nitrite
7631-99-4	0.125	sodium nitrate
7558-79-4	0.1	sodium phosphate, dibasic
7732-18-5	Balance	water
12125-02-9	0.25	ammonium chloride

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 FIRST-AID MEASURES

Description of first aid measures

· · · · · · · · · · · · · · · · · · ·	
Eye Contact	If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: ► Flush skin and hair with running water (and soap if available). ► Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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Special protective equipment and precautions for fire-fighters

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard.
Fire/Explosion Hazard	 Non combustible. May emit poisonous fumes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

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Minor Spills	Clean up all spills immediately.
Major Spills	Moderate hazard.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	Avoid all personal contact, including inhalation.
Other information	

Conditions for safe storage, including any incompatibilities

Suitable container	Polyethylene or polypropylene container.
Storage incompatibility	None known

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US NIOSH Recommended Exposure Limits (RELs)	ammonium chloride	Ammonium chloride, Ammonium muriate fume, Sal ammoniac fume	10 mg/m3	20 mg/m3	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	ammonium chloride	Ammonium chloride, fume	10 mg/m3	20 mg/m3	Not Available	TLV® Basis: Eye & URT irr

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1		TEEL-2	TEEL-3
sodium nitrite	Sodium nitrite	6.4 mg/m3		71 mg/m3	240 mg/m3
sodium nitrate	Sodium nitrate	4.1 mg/m3		45 mg/m3	270 mg/m3
ammonium chloride	Ammonium chloride	20 mg/m3		110 mg/m3	330 mg/m3
Ingredient	Original IDLH		Revised IDLH		
sodium nitrite	Not Available		Not Available		
sodium nitrate	Not Available		Not Available		
sodium phosphate, dibasic	Not Available		Not Available		
water	Not Available		Not Available		
ammonium chloride	Not Available			ailable	
			Not Available Not Available		

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Personal protection	
Eye and face protection	 Safety glasses with side shields Chemical goggles.
Skin protection	See Hand protection below
Hands/feet protection	The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. • Wear chemical protective gloves, e.g. PVC.
Body protection	See Other protection below
Other protection	► Overalls.
Thermal hazards	Not Available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Colourless			
Physical state	Liquid	Relative density (Water = 1)	Not Available	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available	

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pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhale The material is not brught op produce adverse health effects or initiation of the respiratory track (as classified by EC Directives using animal models). Net normally a hazard due to non-values or other classified on systems as 'harmful by ingestion'. The material is not brught op brock as other classified on systems as 'harmful by ingestion'. The material is not brught op brock as devense health effects or infinition of the respiratory track (as classified by EC Directives using animal models). Skin Corrat The material is not brught op brock as devense health effects or skin infinition following contract (as classified by EC Directives using animal models). Effect Skin Corrat The material is not brught op brock as devense health effects or skin infinition following contract (as classified by EC Directives). direct contact whit he eye may produce transient develse. Effect Skin Corrat Although the bught on the average due of the statistics or following contact (skin developments). Development Skin Corrat Although the baged is not hough to pock as devene or mutations. but there is not enough data to make an assessment. Although the liquid is not hough to pock as earner or mutations. Infinition infinition of the pock as the pock and concern mutations. Certified Wastewater Nutrients ToXICITY IRRITATION IRRITATION Not Available Not Available Not Available Infinition of the pock and concern and the instheast and concern proved inconcluster. IRRITA						
Imagestron The left-al oral close of nitrite has been variously reported as between 0.7 and 6 grams (approximately 10-100 miligrams/kilogram body weight). Skin Contect The material is not flought to produce adverse health effects or skin initiation following contrad. (as classified by EC Directives using animal models). Open cuts, adverse health effects or skin initiation following contrad. (as classified by EC Directives using animal models). Open cuts, adverse health effects or skin initiation following contrad. (as classified by EC Directives using animal models). Gen Although the flight is not thought to be an initian (as classified by EC Directives), direct contract with the eye may produce transient discomfort datacterised by tearing or conjunctival redness (as with windburn). Chronic The has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Animal testing to see whether nitrites caused cancer or mutations. Certified Wastewater Nutrients TOXICITY IRRITATION Instalation (rai) LCS0: 0.0055 mgl/4H ^[2] Eye (rabbit): 500 mgl/2Hr - mild Oral (rai) LDS0: 157.9 mg/kg ^[2] Eye (rabbit): 500 mgl/2Hr - mild Oral (rai) LDS0: .5000 mg/kg ^[1] Not Available Sodium nitrate TOXICITY IRRITATION sodium phosphate, dibasic TOXICITY IRRITATION dema (rai) LDS0: .5000 mg/kg ^[1] Not Available Oral (rai) LDS0: .5000 mg/kg ^[1] Eye (rabbit): 500 mg/24h - mild Oral (rai) LDS0: .5000 mg/kg ^[1] Eye (rabbit): 500 mg/2	Inhaled					
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water Not Available Not Available			Ski	Skin (rabbit): 500 mg/24h - mild		
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dermal (rat) LD50: >2000 mg/kg^[1] Eye (rabbit): 100 mg SEVERE Oral (rat) LD50: 1650 mg/kg^[2] Eye (rabbit): 500 mg/24h SEVERE 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified Leaend: data extracted from RTECS - Register of Toxic Effect of chemical Substances SODIUM NITRITE Tumorigenic - Carcinogenic by RTECS criteria. SODIUM PHOSPHATE, The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, DIBASIC scaling and thickening of the skin. WATER No significant acute toxicological data identified in literature search. AMMONIUM CHLORIDE The material may produce severe irritation to the eye causing pronounced inflammation. SODIUM NITRITE & SODIUM The material may be irritating to the eye, with prolonged contact causing inflammation. PHOSPHATE, DIBASIC SODIUM NITRATE & SODIUM Asthma-like symptoms may continue for months or even years after exposure to the material ends. PHOSPHATE, DIBASIC Carcinogenicity \bigcirc ~ Acute Toxicity Skin Irritation/Corrosion \odot Reproductivity 0 \bigcirc STOT - Single Exposure 0 Serious Eye Damage/Irritation Respiratory or Skin \odot STOT - Repeated Exposure \bigcirc sensitisation Mutagenicity \bigcirc Aspiration Hazard 0 🗙 – Data available but does not fill the criteria for classification Leaend: - Data available to make classification

S - Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

ertified Wastewater Nutrients	ENDPOINT	ENDPOINT TEST DURATION (HR)			SPECIES		VALUE		SOURCE	
с	Not Available		Not Available		Not Ava	ilable	Not Avai	lable	Not	Available
	ENDPOINT	TE	ST DURATION (HR)	SPECIES				/ALUE		SOURCE
	LC50	96	ST DORAHON (HR)	Fish).048mg/L		4
sodium nitrite	EC50	48		Crustace	9			a.12.5100mg	/L	1
	EC50	72				atic plants		>100mg/L		2
	NOEC	2		Fish).02mg/L		4
	ENDPOINT		TEST DURATION (HR)			SPECIES		ALUE	4	DURCE
sodium nitrate		LC50 96				Fish		573mg/L		
	NOEC		2880			Fish	1.	6mg/L	4	
	ENDPOINT		TEST DURATION (HR)		SPECIE	S	VALUE		SOL	JRCE
sodium phosphate, dibasic	Not Available		Not Available		Not Available Not A		Not Avai	Available Not A		Available
	ENDPOINT		TEST DURATION (HR)		SPECIE	s	VALUE		SOL	JRCE
water	Not Available		Not Available		Not Ava		Not Avai	lable		Available
	ENDPOINT	TE	EST DURATION (HR)	SPEC	IES			VALUE		SOURCE
	LC50	96	i	Fish				0.08mg/	L	4
ammonium chloride	EC50	48	•	Crusta	Crustacea			0.261mg/L		4
	EC50	72		Algae	Algae or other aquatic plants			166.5mg/L		4
	NOEC	72	0	Fish	Fish 0.006mg/L				4	
Legend:	Extracted from 1	- חו	Toxicity Data 2. Europe ECHA	Desistered Sub	tonooo	Factoriaclasical	Information	- Aquatic To	vicity 3 E	DIM/INI Suito V

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For Nitrate/Nitrite

Environmental Fate: Nitrates form from nitrate or ammonium ions by micro-organisms in soil, water, sewage and the digestive tract. DO NOT discharge into sewer or waterways

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium nitrite	LOW	LOW
sodium nitrate	LOW	LOW
water	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
sodium nitrite	LOW (LogKOW = 0.0564)
sodium nitrate	LOW (LogKOW = 0.209)
water	LOW (LogKOW = -1.38)

Mobility in soil

Ingredient	Mobility
sodium nitrite	LOW (KOC = 23.74)
sodium nitrate	LOW (KOC = 14.3)
water	LOW (KOC = 14.3)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Legislation addressing waste disposal requirements may differ by country, state and/ or territory.
	 DO NOT allow wash water from cleaning or process equipment to enter drains. Recycle wherever possible.

SECTION 14 TRANSPORT INFORMATION

Labels Required		
Marine Polluta	t NO	
Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS		

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

ļ	SODIUM NITRITE(7632-00-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS				
	US - Massachusetts - Right To Know Listed Chemicals	US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive)			
	US - Pennsylvania - Hazardous Substance List	Rule			
	US CWA (Clean Water Act) - List of Hazardous Substances	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory			
	US EPCRA Section 313 Chemical List	US TSCA Chemical Substance Inventory - Interim List of Active Substances			
ļ	SODIUM NITRATE(7631-99-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS				
	US - Massachusetts - Right To Know Listed Chemicals	US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive)			
	US - Pennsylvania - Hazardous Substance List	Rule			
	US - Rhode Island Hazardous Substance List	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory			
	US EPCRA Section 313 Chemical List	US TSCA Chemical Substance Inventory - Interim List of Active Substances			
I	SODIUM PHOSPHATE, DIBASIC(7558-79-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS				
	US - Massachusetts - Right To Know Listed Chemicals	US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive)			
	US - Pennsylvania - Hazardous Substance List	Rule			
	US CWA (Clean Water Act) - List of Hazardous Substances	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory			

s Control Act (TSCA) US TSCA Chemical Substance Inventory - Interim List of Active Substances

WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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US List of Active Substances Exempt from the TSCA Inver Rule	tory Notifications (Active-Inactive)	US TSCA Chemical Substance Inventory - Inte	rim List of Active Substances
US Toxic Substances Control Act (TSCA) - Chemical Subs	stance Inventory		
AMMONIUM CHLORIDE(12125-02-9) IS FOUND ON T	HE FOLLOWING REGULATORY LIS	STS	
US - Alaska Limits for Air Contaminants		US - Vermont Permissible Exposure Limits Tak	ble Z-1-A Final Rule Limits for Air Contaminants
US - California Permissible Exposure Limits for Chemical	Contaminants	US - Vermont Permissible Exposure Limits Tak	ble Z-1-A Transitional Limits for Air
US - Hawaii Air Contaminant Limits		Contaminants	
US - Massachusetts - Right To Know Listed Chemicals		US - Washington Permissible exposure limits of	of air contaminants
US - Michigan Exposure Limits for Air Contaminants		US ACGIH Threshold Limit Values (TLV)	
US - Minnesota Permissible Exposure Limits (PELs)		US CWA (Clean Water Act) - List of Hazardou	is Substances
US - Oregon Permissible Exposure Limits (Z-1)		US List of Active Substances Exempt from the	TSCA Inventory Notifications (Active-Inactive)
US - Pennsylvania - Hazardous Substance List		Rule	
US - Rhode Island Hazardous Substance List		US NIOSH Recommended Exposure Limits (R	RELs)
US - Tennessee Occupational Exposure Limits - Limits Fo	r Air Contaminants	US Toxic Substances Control Act (TSCA) - Ch	emical Substance Inventory
		US TSCA Chemical Substance Inventory - Inte	erim List of Active Substances

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	No
Delayed (chronic) health hazard	Yes
Fire hazard	No
Pressure hazard	No
Reactivity hazard	No

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)			
Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg	
Sodium nitrite	100	45.4	
Sodium phosphate, dibasic	5000	2270	
Ammonium chloride	5000	2270	

State Regulations

US. CALIFORNIA PROPOSITION 65

None Reported

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (ammonium chloride; water; sodium nitrite; sodium nitrate; sodium phosphate, dibasic)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (ammonium chloride; water; sodium nitrite; sodium nitrate; sodium phosphate, dibasic)
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

Name	CAS No
sodium phosphate, dibasic	7558-79-4, 10028-24-7
ammonium chloride	12125-02-9, 152128-19-3

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

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TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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