SAFETY DATA SHEET



1. Identification

1. Identification			
Product identifier	Manni-Plex N-Boron		
Other means of identification Product code	28123		
Recommended use	Agricultural/ Horticultural Us	e- Fertilizer- Refer	to product label
Recommended restrictions	Refer to product label.		
Manufacturer/Importer/Supplier/	•		
Manufacturer			
Company name Address Telephone Website E-mail Contact person Emergency phone number	Brandt Consolidated, Inc. 2935 South Koke Mill Road Springfield, IL 62711 United States Corporate Office www.brandt.co msds@brandt.co EH&S / Regulatory Departm CHEMTREC (24 hours): USA, Canada, Puerto Rico Virgin Islands International Maritime	1-217-547-5800 ent 1-800-424-9300 1-800-424-9300 +1 (703) 527-38{	37
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Sensitization, skin		Category 1
	Reproductive toxicity		Category 2
Environmental hazards	Hazardous to the aquatic en hazard	vironment, acute	Category 3
	Hazardous to the aquatic en long-term hazard	vironment,	Category 3
OSHA defined hazards	Not classified.		
Label elements			

Signal word	Warning
Hazard statement	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Boric acid (H3BO3) reaction products with ethanolamine		94095-04-2	20 - < 30*
Urea		57-13-6	10 - < 20*
Glycine, N,N-1,2-ethanediylbis[N-(carboxym ethyl)-, tetrasodium salt		64-02-8	< 1*
2-Amino Ethanol (Ethanolamine)		141-43-5	< 0.3*
Cupric Nitrate		3251-23-8	< 0.3*
Formaldehyde		50-00-0	< 0.1*
Sodium hydroxide, (Na(OH))		1310-73-2	< 0.1*
Other components below reportable	levels		60 - < 70

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

No unusual fire or explosion hazards noted.

Methods and materials for	Prevent product from entering drains.	
containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.	
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.	
	Never return spills to original containers for re-use.	
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.	
Conditions for safe storage,	Store locked up. Store in original tightly closed container.	

including any incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Туре	Value	
Formaldehyde (CAS 50-00-0)	STEL	2 ppm	
	TWA	0.75 ppm	
US. OSHA Table Z-1 Limits for Air	•	•	
Components	Туре	Value	
2-Amino Ethanol (Ethanolamine) (CAS 141-43-5)	PEL	6 mg/m3	
		3 ppm	
Sodium hydroxide, (Na(OH)) (CAS 1310-73-2)	PEL	2 mg/m3	
US. ACGIH Threshold Limit Values	•		
Components	Туре	Value	Form
2-Amino Ethanol (Ethanolamine) (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
Cupric Nitrate (CAS 3251-23-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Formaldehyde (CAS 50-00-0)	STEL	0.3 ppm	
	TWA	0.1 ppm	
Sodium hydroxide, (Na(OH)) (CAS 1310-73-2)	Ceiling	2 mg/m3	
US. NIOSH: Pocket Guide to Chem	nical Hazards		
Components	Туре	Value	Form
2-Amino Ethanol (Ethanolamine) (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	Form
	TWA	8 mg/m3	
		3 ppm	
Cupric Nitrate (CAS 3251-23-8)	TWA	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
Formaldehyde (CAS 50-00-0)	Ceiling	0.1 ppm	
	TWA	0.016 ppm	
Sodium hydroxide, (Na(OH)) (CAS 1310-73-2)	Ceiling	2 mg/m3	
US. Workplace Environme	ntal Exposure Level (WEEL) Guides		
Components	Туре	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.
logical limit values	No biological exposure limits noted for th	e ingredient(s).	
propriate engineering htrols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.		
ividual protection measures	s, such as personal protective equipment		
Eye/face protection	Chemical respirator with organic vapor ca	artridge and full facepiece.	
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.		
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.		
	Wear appropriate thermal protective clothing, when necessary.		
Thermal hazards	wear appropriate thermal protective cloti	hing, when necessary.	

9. Physical and chemical properties

Appearance	Aqueous solution.
Physical state	Liquid.
Form	Liquid.
Color	Blue
Odor	Not available.
Odor threshold	Not available.
рН	7 - 9 (neat)
Melting point/freezing point	Not Applicable / 32 °F (0 °C) (approximate)
Initial boiling point and boiling range	> 212 °F (> 100 °C) estimated
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.

Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.09 hPa estimated
Vapor density	Not available.
Relative density	1.16 (typical)
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	71.75 % estimated
pH in aqueous solution	7 - 8 (1% Solution)
Pounds per gallon	9.65 (typical)
Specific gravity	1.36 estimated
VOC	12.1 % estimated
10. Stability and reactivity	

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity	city May cause an allergic skin reaction.	
Components	Species	Test Results
Cupric Nitrate (CAS 3251-	23-8)	
<u>Acute</u>		
Oral		
LD50	Rat	940 mg/kg
Formaldehyde (CAS 50-00	D-0)	
Acute		
Inhalation		
LC50	Rat	0.48 mg/l, 4 Hours

Components	Species		Test Results
Oral			
LD50	Rat		100 mg/kg
Jrea (CAS 57-13-6)			
Acute			
Oral	_		
LD50	Rat		8471 mg/kg
* Estimates for product may b	e based on additio	al component data not shown.	
Skin corrosion/irritation	Causes skin irrit	on.	
Serious eye damage/eye irritation	Causes serious	e irritation.	
Respiratory or skin sensitizatio	n		
ACGIH sensitization			
FORMALDEHYDE (CAS	50-00-0)	Dermal sensitization Respiratory sensitiza	
Respiratory sensitization	Not a respiratory	ensitizer.	
Skin sensitization	May cause an a	rgic skin reaction.	
Germ cell mutagenicity	No data availabl mutagenic or ge		ents present at greater than 0.1% are
Carcinogenicity	This product is r	considered to be a carcinogen by	/ IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall	Evaluation of Car	nogenicity	
Formaldehyde (CAS 50-0 OSHA Specifically Regulate	ed Substances (29	1 Carcinogenic to hu FR 1910.1001-1053)	imans.
Formaldehyde (CAS 50-0	,	Cancer	
US. National Toxicology Pro		-	
Formaldehyde (CAS 50-0	-	Known To Be Huma aging fertility or the unborn child.	n Carcinogen.
Reproductive toxicity	Not classified.	aging remity of the unborn child.	
Specific target organ toxicity - single exposure			
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful.		
12. Ecological informatior	ı		
Ecotoxicity	Harmful to aqua	life with long lasting effects.	
Product	5	ecies	Test Results
Manni-Plex N-Boron			
Aquatic			
Crustacea	EC50 [phnia	143.3099 mg/l, 48 hours estimated
Fish	LC50 F	h	453.8798 mg/l, 96 hours estimated
Components	S	ecies	Test Results
2-Amino Ethanol (Ethanolami	ne) (CAS 141-43-5		
Aquatic			
Fish		inbow trout,donaldson trout ncorhynchus mykiss)	114 - 196 mg/l, 96 hours
Cupric Nitrate (CAS 3251-23-	8)		
Aquatic			
Crustacea	EC50 V	ter flea (Moina dubia)	0.037 - 0.044 mg/l, 48 hours
	LC50 \	nter flounder (Pleuronectes	0.057 - 0.1061 mg/l, 96 hours

	Species	Test Results
0-0)		
EC50	Water flea (Daphnia pulex)	4.3 - 7.8 mg/l, 48 hours
LC50	Striped bass (Morone saxatilis)	10.302 - 16.743 mg/l, 96 hours
iylbis[N-(carbox	ymethyl)-, tetrasodium salt (CAS 64-02-8)	
LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/l, 96 hours
H)) (CAS 1310-	73-2)	
EC50	Water flea (Ceriodaphnia dubia)	34.59 - 47.13 mg/l, 48 hours
LC50	Western mosquitofish (Gambusia affinis)	125 mg/l, 96 hours
EC50	Water flea (Daphnia magna)	3910 mg/l, 48 hours
LC50	Carp (Leuciscus idus melanotus)	> 10000 mg/l, 48 hours
	Guppy (Poecilia reticulata)	16200 - 18300 mg/l, 96 hours
	Harlequinfish, red rasbora (Rasbora heteromorpha)	12000 mg/l, 96 hours
	Mozambique tilapia (Tilapia mossambica)	590 - 730 mg/l, 96 hours
i	LC50 iylbis[N-(carbox LC50 H)) (CAS 1310- EC50 LC50 EC50	EC50Water flea (Daphnia pulex)LC50Striped bass (Morone saxatilis)iylbis[N-(carboxymethyl)-, tetrasodium salt (CAS 64-02-8)LC50Bluegill (Lepomis macrochirus)H)) (CAS 1310-73-2)EC50Water flea (Ceriodaphnia dubia)LC50Western mosquitofish (Gambusia affinis)EC50Water flea (Daphnia magna)LC50Carp (Leuciscus idus melanotus)Guppy (Poecilia reticulata)Harlequinfish, red rasbora (Rasbora heteromorpha)Mozambique tilapia (Tilapia

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-o	octanol / water (log Kow)	
2-Amino Ethanol (Ethanolamine)		-1.31
Formaldehyde		0.35
Urea		-2.11
Mobility in soil No data available.		
Other adverse effects No other adverse environmen		nmental effect

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
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 disposal company.
Waste from residues / unused products	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	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

6 federal regulations	This produ		is Chomical" as defined		• • •
rederal regulations		ct is a "Hazardou 29 CFR 1910.12		d by the OSHA Hazard	Communication
Toxic Substances Co	ntrol Act (TSCA)				
TSCA Section 12	(b) Export Notificat	tion (40 CFR 70	7, Subpt. D)		
Not regulated					
CERCLA Hazardous	Substance List (40	CFR 302.4)			
Cupric Nitrate (CA			Listed.		
Formaldehyde (CA	,	40.70.0	Listed.		
Sodium hydroxide	, (Na(OH)) (CAS 13		Listed.		
FORMALDEHYDE			100 LBS		
OSHA Specifically Re		es (29 CFR 1910			
Formaldehyde (CA	- \\$ 50-00-0)		Cancer Skin sensitization Respiratory sensit Eye irritation Skin irritation respiratory tract irr Acute toxicity Flammability		
perfund Amendments a		-	SARA)		
SARA 302 Extremely				_	_
Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
		(500	(poundo)	(poundo)
Formaldehvde	50-00-0	100	500		
Formaldehyde SARA 311/312 Hazaro chemical		100 ot)	500		
SARA 311/312 Hazard	lous No (Exemp	ot)	SUU AS number	% by wt.	
SARA 311/312 Hazaro chemical SARA 313 (TRI report	lous No (Exemp	ot) C/		<mark>% by wt.</mark> < 0.1	
SARA 311/312 Hazard chemical SARA 313 (TRI report <u>Chemical name</u> Formaldehyde her federal regulations	lous No (Exemp	ot) <u>C</u> / 5	AS number 50-00-0	•	
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SARA 311/312 Hazard chemical SARA 313 (TRI report Chemical name Formaldehyde her federal regulations Clean Air Act (CAA) S Formaldehyde (CA Clean Air Act (CAA) S Formaldehyde (CA Safe Drinking Water A (SDWA) State regulations California Proposition WARNIN California Proposition Scalifornia Proposition California Proposition Formaldehyde US. California. Ca subd. (a)) Formaldehyde Sodium hydro	lous No (Exemp ing) Gection 112 Hazard AS 50-00-0) Gection 112(r) Accie AS 50-00-0) Act Not regulat n 65 G: WARNING: Thi which are know harm. For more sition 65 - CRT: Lis e (CAS 50-00-0) andidate Chemicals e (CAS 50-00-0) xide, (Na(OH)) (CAS Inventory Australian	ott) C/ 5 ous Air Pollutar dental Release I ed. s product can ex n to the State of information go t ted date/Carcin s List. Safer Col S 1310-73-2) name	AS number 50-00-0 Ints (HAPs) List Prevention (40 CFR 6 California to cause car o www.P65Warnings.c ogenic substance Listed: January 1, nsumer Products Reg mical Substances (AIC	< 0.1 including arsenic, cadmoder acer and birth defects on a.gov. 1988 gulations (Cal. Code R	r other reproductive

Country(s) or region	Inventory name On inventor	ory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No
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*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	07-18-2023
Version #	01
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of Manufacturer's knowledge, information and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the Product or the information provided herein, or that the Product or information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data Sheet relates only to the specific Product designated and may not be valid if the Product is used in combination with other materials or in any other process, unless specified herein. The user assumes all risk and liability for loss, injury, damage or expense due to any use, handling, storage or disposal of the Product, and Manufacturer recommends that the user conducts its owns tests of the Product to determine suitability of the Product for user's particular use.
Revision information	Product and Company Identification: Alternate Trade Names Physical & Chemical Properties: Multiple Properties