Magruder Fertilizer Check Samples 190911 Safety Data Sheet

1. Identification		
Product identifier	Brandt 10-45-10 Micro	
Other means of identification		
Product code	31002	
Recommended use	Agricultural /horticulure use - N	PK fertilizer with micronutrients - refer to product label
Recommended restrictions	Refer to product label.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name Address	Brandt Consolidated, Inc. 2935 South Koke Mill Road Springfield, IL 62711 United States	
Telephone	Corporate Office	1-217-547-5800
Website	www.brandt.co	
E-mail	msds@brandt.co	
Contact person Emergency phone number	EH&S / Regulatory Department CHEMTREC (24 hours):	
	USA, Canada, Puerto Rico	1-800-424-9300
	Virgin Islands	1-800-424-9300
	International Maritime	+1 (703) 527-3887
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	None.	
Hazard statement	The mixture does not meet the	criteria for classification.
Precautionary statement		
Prevention	Observe good industrial hygien	e practices.
Response	Wash hands after handling.	
Storage	Store away from incompatible r	naterials.
Disposal	Dispose of waste and residues	in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Urea		57-13-6	3 - < 5*
EDTA, Disodium Copper(II) Salt		14025-15-1	< 1*
Manganese EDTA, disodium salt		15375-84-5	< 1*
Disodium Octaborate Tetrahydrate	9	12008-41-2	< 0.2*
Other components below reportab	le levels		90 - 100
*Designates that a specific chemical i	dentity and/or percentage of composition ha	s been withheld as a trade s	ecret.
Material name: Brandt 10-45-10 Micro			

31002 Version #: 07 Revision date: 07-23-2018 Issue date: 06-05-2015

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.	
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.	
Eye contact	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Dusts may irritate the respiratory tract, skin and eyes.	
Indication of immediate medical attention and special treatment needed	Treat symptomatically.	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	

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	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.
	Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.
	Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged exposure. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)			
Components	Туре	Value	
Manganese EDTA, disodium salt (CAS 15375-84-5)	Ceiling	5 mg/m3	

Components	Туре	Value	Form
Disodium Octaborate Tetrahydrate (CAS 12008-41-2)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
EDTA, Disodium Copper(II) Salt (CAS 14025-15-1)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
US. NIOSH: Pocket Guide to	Chemical Hazards		_
Components	Туре	Value	Form
EDTA, Disodium Copper(II) Salt (CAS 14025-15-1)	TWA	1 mg/m3	Dust and mist.
Manganese EDTA, disodium salt (CAS 15375-84-5)	STEL	3 mg/m3	Fume.
,	TWA	1 mg/m3	Fume.
	nmental Exposure Level (WEEL) Guid		_
Components	Туре	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.
logical limit values	No biological exposure limits noted for	r the ingredient(s).	
	Good general ventilation (typically 10 should be matched to conditions. If ap or other engineering controls to mainta exposure limits have not been establis	pplicable, use process enclosu ain airborne levels below reco shed, maintain airborne levels	ures, local exhaust ventilation mmended exposure limits. to an acceptable level. If
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Color	Light blue
Odor	None.
Odor threshold	Not available.
рН	4.8 - 5.9
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.

Upper/lower flammability or explosive limits

Opper/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	Not available.			
Vapor density	Not available.			
Relative density	Not available.			
Solubility(ies)				
Solubility (water)	soluble			
Partition coefficient (n-octanol/water)	Not available.			
Auto-ignition temperature	Not available.			
Decomposition temperature	Not available.			
Viscosity	Not available.			
Other information				
Density	54.40 lb/ft ³			
Explosive properties	Not explosive.			
Oxidizing properties	Not oxidizing.			

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	Dust may irritate respiratory system. Prolonged inhalation may be harmful.	
Skin contact	Dust or powder may irritate the skin.	
Eye contact	Dust may irritate the eyes.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Dusts may irritate the respiratory tract, skin and eyes.	

Information on toxicological effects

Acute toxicity		
Product	Species	Test Results
Brandt 10-45-10 Micro		
<u>Acute</u>		
Dermal		
LD50	Rat	9936 mg/kg estimated
Inhalation		
LC50	Rat	6 mg/l, 192 hours estimated
LD50	Rat	1979 mg/l estimated
		-

Product	Species	Test Results	
Oral			
LD50	Rat	8846 mg/kg estimated	
Components	Species	Test Results	
Disodium Octaborate Tetrahydra	te (CAS 12008-41-2)		
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Oral			
LD50	Guinea pig	5300 mg/kg	
	Rat	2550 mg/kg	
		2 g/kg	
Jrea (CAS 57-13-6)		5 5	
Acute			
Oral			
LD50	Rat	8471 mg/kg	
	Sheep	28500 mg/kg	
	Спеер	20000 mg/kg	
* Estimates for product may	be based on additional component data	not shown.	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.		
Serious eye damage/eye rritation	Direct contact with eyes may cause to	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitizatio	on		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Not listed. OSHA Specifically Regulat	ed Substances (29 CFR 1910.1001-10	50)	
	rogram (NTP) Report on Carcinogens		
Not listed.			
Reproductive toxicity		This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.		
12. Ecological informatio	с ,		
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment		
Product	Species	Test Results	
Brandt 10-45-10 Micro	· ·		
Aquatic			
Fish	LC50 Fish	5120.3042 mg/l, 96 hours estimated	
-			

Components		Species	Test Results
Disodium Octaborate To	etrahydrate (CAS	12008-41-2)	
Aquatic			
Acute			
Crustacea	LC50	Daphnia magna	619 mg/l
Fish	LC50	Pimephales promelas	370 mg/l
EDTA, Disodium Coppe	er(II) Salt (CAS 14	025-15-1)	
Aquatic			
Fish	LC50	Channel catfish (Ictalurus punctatus)	838 mg/l, 96 hours
Urea (CAS 57-13-6)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	3910 mg/l, 48 hours
Fish	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
* Estimates for product	may be based on	additional component data not shown.	
sistence and degradab	ility No data is	s available on the degradability of this produc	ot.
accumulative potential			
Partition coefficient n- Urea	octanol / water (log Kow) -2.11	
oility in soil	No data a	vailable.	

13. Disposal considerations

Other adverse effects

-	
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
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.

IATA Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

- US federal regulations This product is not k
- This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4)

Manganese EDTA, disodium salt (CAS 15375-84-5)	Listed.
EDTA, Disodium Copper(II) Salt (CAS 14025-15-1)	Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard	categories
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Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Manganese EDTA, disodium salt (CAS 15375-84-5)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Disodium Octaborate Tetrahydrate (CAS 12008-41-2) EDTA, Disodium Copper(II) Salt (CAS 14025-15-1) Manganese EDTA, disodium salt (CAS 15375-84-5)

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

EDTA, Disodium Copper(II) Salt (CAS 14025-15-1) Manganese EDTA, disodium salt (CAS 15375-84-5)

US. California Proposition 65



WARNING: This product can expose you to chemicals including arsenic, cadmium, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
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)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

Country(s) or region	Inventory name
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory

*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 Revision date Version #	06-05-2015 07-23-2018 07
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	This document has undergone significant changes and should be reviewed in its entirety.