



1. Identification

1. Identification			
Product identifier	Brandt 20-20-20 Micro		
Other means of identification			
Product code	31008		
Recommended use	Agricultural/ Horticultural Use- Micronutrient Fertilizer- 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	1-217-547-58	00
Website	www.brandt.co		
E-mail Contact person	msds@brandt.co EH&S / Regulatory Department		
Emergency phone number	CHEMTREC (24 hours):		
	USA, Canada, Puerto Rico	1-800-424-930	00
	Virgin Islands	1-800-424-930	
	International Maritime	+1 (703) 527-3	3887
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 4
	Serious eye damage/eye irritatio	on	Category 2A
	Reproductive toxicity		Category 2
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Warning		
Hazard statement	Harmful if swallowed. Causes so child.	erious eye irrita	ation. Suspected of damaging fertility or the unborn
Precautionary statement			
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.		
Response	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. 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 eye irritation persists: Get medical advice/attention.		
Storage	Store locked up.		
Disposal	Dispose of contents/container in	accordance w	vith local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	None.		

3. Composition/information on ingredients

Mixtures

media

the chemical

Fire fighting

Chemical name	Common name and synonyms	CAS number	%
Potassium Nitrate		7757-79-1	40 - < 50*
Urea		57-13-6	20 - < 30*
Mono potassium phosphate (MKP)		7778-77-0	3 - < 5*
EDTA, Disodium Copper(II) Salt		14025-15-1	< 1*
Manganese EDTA, disodium salt		15375-84-5	< 1*
Disodium Octaborate Tetrahydrate		12008-41-2	< 0.2*
Other components below reportable levels			30 - < 40

*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	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Do not rub eyes. 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. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. 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.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire.	гe.
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Specific hazards arising from During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Use water spray to cool unopened containers.

equipment/instructionsSpecific methodsUse standard firefighting procedures and consider the hazards of other involved materials.General fire hazardsNo unusual fire or explosion hazards noted.

6. Accidental release measures

Special protective equipment

and precautions for firefighters

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. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. 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. 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. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. 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. 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	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not taste or swallow. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. 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	
US. ACGIH Threshold Limit Components	Values Type	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.
· · · · · · · · · · · · · · · · · · ·		0.0	F
		0.2 mg/m3	Fume.
US. NIOSH: Pocket Guide to	o Chemical Hazards	0.2 mg/m3	Fume.
	o Chemical Hazards Type	0.2 mg/m3 Value	Fume. Form
Components EDTA, Disodium Copper(II)			
	Туре	Value	Form
Components EDTA, Disodium Copper(II) Salt (CAS 14025-15-1) Manganese EDTA, disodium salt (CAS	Type TWA	Value 1 mg/m3	Form Dust and mist.
Components EDTA, Disodium Copper(II) Salt (CAS 14025-15-1) Manganese EDTA, disodium salt (CAS 15375-84-5)	Type TWA STEL	Value 1 mg/m3 3 mg/m3 1 mg/m3	Form Dust and mist. Fume.
Components EDTA, Disodium Copper(II) Salt (CAS 14025-15-1) Manganese EDTA, disodium salt (CAS 15375-84-5) US. AIHA Workplace Enviro	Type TWA STEL TWA	Value 1 mg/m3 3 mg/m3 1 mg/m3	Form Dust and mist. Fume.
Components EDTA, Disodium Copper(II) Salt (CAS 14025-15-1) Manganese EDTA, disodium salt (CAS 15375-84-5) US. AIHA Workplace Enviro	Type TWA STEL TWA onmental Exposure Level (WEEL) Guid	Value 1 mg/m3 3 mg/m3 1 mg/m3 des	Form Dust and mist. Fume. Fume.
Components EDTA, Disodium Copper(II) Salt (CAS 14025-15-1) Manganese EDTA, disodium salt (CAS 15375-84-5)	Type TWA STEL TWA onmental Exposure Level (WEEL) Guid	Value 1 mg/m3 3 mg/m3 1 mg/m3 des	Form Dust and mi Fume. Fume.

Appropriate engineering controls 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. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection	Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.	
Other	Wear suitable protective clothing. Use of an impervious apron is recommended.	
Respiratory protection	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

9. Physical and chemical properties

Appearance	Powder.
Physical state	Solid.
Form	Powder.
Color	Light blue
Odor	None.
Odor threshold	Not available.
рН	Not available.
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 expl	osive 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	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity Chemical stability

The product is stable and non-reactive under normal conditions of use, storage and transport. 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	Causes serious eye irritation.
Ingestion	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes.

Information on toxicological effects

Acute toxicity	Harmful if swallowed.	
Product	Species	Test Results
Brandt 20-20-20 Micro		
<u>Acute</u>		
Inhalation		
LD50	Rat	1979 mg/l estimated
Oral		
LD50	Mouse	44739 mg/kg estimated
	Rabbit	2880 mg/kg estimated
	Rat	26215 mg/kg estimated
Components	Species	Test Results
Disodium Octaborate Tetra	hydrate (CAS 12008-41-2)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Guinea pig	5300 mg/kg
	Rat	2550 mg/kg
		2 g/kg
Mono potassium phosphate	e (MKP) (CAS 7778-77-0)	
<u>Acute</u>		
Oral		
LD50	Mouse	1700 mg/kg
Potassium Nitrate (CAS 77	57-79-1)	
<u>Acute</u>		
Oral		
LD50	Rabbit	1166 mg/kg
Urea (CAS 57-13-6)		
Acute		
Oral	5.4	2 /7/ //
LD50	Rat	8471 mg/kg
	Sheep	28500 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 irritation	Causes serious eye irritation.
Respiratory or skin sensitization	n
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	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 1910.1001-1050)
Not regulated.	
US. National Toxicology Pr	ogram (NTP) Report on Carcinogens
Not listed.	
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological information

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 20-20-20 Micro			
Aquatic			
Acute			
Crustacea	EC50	Daphnia	20000 mg/l, 48 hours estimated
Fish	LC50	Fish	2000.0002 mg/l, 96 hours estimated
Components		Species	Test Results
Disodium Octaborate T	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
Potassium Nitrate (CAS	6 7757-79-1)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	1200 mg/l, 96 hours
Acute			
Fish	LC50	Fish	1378 - 3000 mg/l
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

Components		Species	Test Results
		Harlequinfish, red rasbora (Rasbora heteromorpha)	12000 mg/l, 96 hours
		Mozambique tilapia (Tilapia mossambica)	590 - 730 mg/l, 96 hours
* Estimates for product may b	e based on add	itional component data not shown.	
Persistence and degradability	No data is ava	ailable on the degradability of this product	t.
Bioaccumulative potential			
Partition coefficient n-octan	nol / water (log	Kow)	
Urea		-2.11	
Mobility in soil	No data availa	able.	
Other adverse effects		erse environmental effects (e.g. ozone dep ocrine disruption, global warming potentia	
13. Disposal consideration	ns		
Disposal instructions		claim or dispose in sealed containers at li ainer in accordance with local/regional/na	
Local disposal regulations	Dispose in ac	cordance with all applicable regulations.	
Hazardous waste code	The waste co disposal com	de should be assigned in discussion betw pany.	een the user, the producer and the waste
Waste from residues / unused products		accordance with local regulations. Empty ues. This material and its container must b uctions).	
Contaminated packaging		d containers may retain product residue, for ty containers should be taken to an appro	ollow label warnings even after container is wed waste handling site for recycling or
14. Transport information			
DOT			
Not regulated as dangerous g	joods.		
ΙΑΤΑ			
Not regulated as dangerous g	joods.		
IMDG			
Not regulated as dangerous g	joods.		
15. Regulatory information	n		

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

EDTA, Disodium Copper(II) Salt (CAS 14025-15-1)	Listed.
Manganese EDTA, disodium salt (CAS 15375-84-5)	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	Immediate Hazard - Yes Delayed Hazard - Yes
	Fire Hazard - No
	Pressure Hazard - No
	Reactivity Hazard - No
SABA 302 Extremely baz	ardous substanco

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

Potassium Nitrate	CAS number	% by wt.	
	7757-79-1	40 - < 50	
her federal regulations			
Clean Air Act (CAA) Section	n 112 Hazardous Air Pollutants (HAPs) List		
Clean Air Act (CAA) Section	lium salt (CAS 15375-84-5) 112(r) Accidental Release Prevention (40	CFR 68.130)	
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
state regulations			
US. California Controlled Su	ubstances. CA Department of Justice (Calif	ornia Health and Safety Coo	de Section 11100)
Not listed.			
US. Massachusetts RTK - S			
Potassium Nitrate (CAS 7			
•	Community Right-to-Know Act		
EDTA, Disodium Copper	rrahydrate (CAS 12008-41-2) (II) Salt (CAS 14025-15-1) lium salt (CAS 15375-84-5) 7757-79-1)		
	nd Community Right-to-Know Law		
Potassium Nitrate (CAS 7 US. Rhode Island RTK	7757-79-1)		
Manganese EDTA, disod Potassium Nitrate (CAS 7 US. California Proposition 6	55		
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Issue date 06-05-2015 Revision date 07-23-2018 Version # 09

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.