



1. Identification

1. Identification			
Product identifier	Brandt 6-30-30 Micro		
Other means of identification			
Product code	31010		
Recommended use	Agricultural /horticulture use - N	IPK fertilizer wi	ith 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	1-217-547-58	300
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 Virgin Islands International Maritime	1-800-424-93 1-800-424-93 +1 (703) 527-	600
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 4
	Acute toxicity, dermal		Category 4
	Serious eye damage/eye irritati	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. Harmful in damaging fertility or the unborn		skin. Causes serious eye irritation. Suspected of
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 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. Call a poison center/doctor if you feel unwell. 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	n accordance v	with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.		

3. Composition/information on ingredients

Mixtures

Chemical name C	Common name and synonyms	CAS number	%
Mono potassium phosphate (MKP)		7778-77-0	60 - < 70*
Potassium Nitrate		7757-79-1	20 - < 30*
EDTA, Disodium Copper(II) Salt		14025-15-1	< 1*
Manganese EDTA, disodium salt		15375-84-5	< 1*
Other components below reportable levels			3 - < 5

*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 advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact 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. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred Most important vision. symptoms/effects, acute and delayed Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim Indication of immediate under observation. Symptoms may be delayed. medical attention and special treatment needed IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice **General information** (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 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. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. 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	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.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. 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. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. 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. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. Store locked up. Store in original tightly closed container. Store away from incompatible materials

Conditions for safe storage, including any incompatibilities (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	Type	Value	
Manganese EDTA, disodium salt (CAS 15375-84-5)	Ceiling	5 mg/m3	
US. ACGIH Threshold Limit			
Components	Туре	Value	Form
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.
ological limit values	No biological exposure limits noted for	r the ingredient(s).	
propriate engineering ntrols	Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to main exposure limits have not been establi eyewash station.	oplicable, use process enclosu ain airborne levels below reco	ures, local exhaust ventilation, ommended exposure limits. If
lividual protection measures,	such as personal protective equipm	ent	
Eye/face protection	Wear safety glasses with side shields	(or goggles).	
Skin protection Hand protection	Wear appropriate chemical resistant supplier.	gloves. Suitable gloves can be	recommended by the glove
Other	Wear appropriate chemical resistant	clothing. Use of an impervious	apron is recommended.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.		
Thermal hazards	Wear appropriate thermal protective of	clothing, when necessary.	
neral hygiene nsiderations	Observe any medical surveillance rec good personal hygiene measures, su drinking, and/or smoking. Routinely v contaminants.	ch as washing after handling t	he material and before eating,

9. Physical and chemical properties

Appearance	Solid. Granular.
Physical state	Solid.
Form	Solid. Granular.
Color	Grey.
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 exp	losive 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)	Partial
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	

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	Harmful in contact with 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.

Information on toxicological effects

Acute toxicity

Harmful in contact with skin. Harmful if swallowed.

Product	Species	Test Results
Brandt 6-30-30 Micro		
<u>Acute</u>		
Dermal		
LD50	Rat	16721 mg/kg estimated
Inhalation		
LC50	Rat	8361 mg/m ³ estimated
Oral		
LD50	Chicken	2458 g/kg estimated
	Mouse	2957 mg/kg estimated
	Rabbit	4500 mg/kg estimated
	Rat	25566 mg/kg estimated
Components	Species	Test Results
Mono potassium phosphate (MKF	P) (CAS 7778-77-0)	
Acute		
Oral		
LD50	Mouse	1700 mg/kg
Potassium Nitrate (CAS 7757-79-	1)	
<u>Acute</u>		
Oral		
LD50	Rabbit	1166 mg/kg
* Estimates for product may t	be based on additional component data not	shown.
Skin corrosion/irritation	Prolonged skin contact may cause tempo	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitizatio	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 a mutagenic or genotoxic.	ny components present at greater than 0.1% are
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
Not listed. OSHA Specifically Regulate Not regulated.	Evaluation of Carcinogenicity ed Substances (29 CFR 1910.1001-1050) ogram (NTP) Report on Carcinogens	
Reproductive toxicity	Suspected of damaging fertility or the unl	porn 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	1	
Ecotoxicity	The product is not classified as environm	entally hazardous. However, this does not exclude the

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 6-30-30 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
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	5 7757-79-1)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	1200 mg/l, 96 hours
A			
Acute		Fish	1378 - 3000 mg/l

Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	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. 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.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

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.

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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
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Superfund Amendments and Re	eauthorization Act of 19	986 (SARA)		
Hazard categories	Immediate Hazard - Yo Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	es		
SARA 302 Extremely hazar	dous substance			
Not listed.				
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
Potassium Nitrate		7757-79-1	20 - < 30	
Other federal regulations				
Clean Air Act (CAA) Section	n 112 Hazardous Air Po	llutants (HAPs) List		
Manganese EDTA, disoc Clean Air Act (CAA) Section		,	FR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
US. California Controlled S	ubstances. CA Departm	ent of Justice (Califo	rnia Health and Safety Co	de Section 11100)
Not listed. US. Massachusetts RTK - S	Substance List			
Potassium Nitrate (CAS	7757-79-1)			
US. New Jersey Worker and	d Community Right-to-H	(now Act		
EDTA, Disodium Copper Manganese EDTA, disoc Potassium Nitrate (CAS	dium salt (CAS 15375-84			
US. Pennsylvania Worker a		-Know Law		
Potassium Nitrate (CAS	7757-79-1)			
US. Rhode Island RTK				
EDTA, Disodium Copper Manganese EDTA, disoc Potassium Nitrate (CAS				
US. California Proposition	65			
	er and birth defects or oth		, cadmium, and lead, which For more information go to	are known to the State of
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 Substan	nces List (NDSL)		No
China	Inventory of Existing C	hemical Substances in	China (IECSC)	Yes
Europe	European Inventory of Substances (EINECS)	Existing Commercial C	hemical	Yes
Europe	European List of Notifi	ed Chemical Substance	es (ELINCS)	No
Japan	Inventory of Existing a	nd New Chemical Subs	stances (ENCS)	No
Korea	Existing Chemicals Lis	st (ECL)		No
New Zealand	New Zealand Inventor	у		Yes
Philippines	Philippine Inventory of	Chemicals and Chemic	cal Substances	No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

(PICCS)

*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).

Yes

16. Other information, including date of preparation or last revision

Issue date	06-05-2015
Revision date	07-16-2018
Version #	06
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.