



1. Identification

Product identifier	Brandt Rhizo Aide		
Other means of identification			
Product code	30077		
Recommended use	Agricultural/ Horticultural Use- F	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	300
Website	www.brandt.co		
E-mail	msds@brandt.co	L	
Contact person Emergency phone number	EH&S / Regulatory Department CHEMTREC (24 hours):	[
	USA, Canada, Puerto Rico Virgin Islands International Maritime	1-800-424-93 1-800-424-93 +1 (703) 527-	00
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Carcinogenicity		Category 1A
	Specific target organ toxicity, si	ngle exposure	Category 3 respiratory tract irritation
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		

Label elements



Signal word	Danger
Hazard statement	May cause respiratory irritation. May cause cancer.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
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	%
Potassium Chloride		7447-40-7	1.1
Quartz, Dust, Respirable Fraction		14808-60-7	< 1*
Other components below reportable levels			90 - 100

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

4. First-aid measures Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists. Rinse with water. Get medical attention if irritation develops and persists. Eye contact Rinse mouth. Get medical attention if symptoms occur. Ingestion May cause respiratory irritation. Most important symptoms/effects, acute and delayed Indication of immediate Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. medical attention and special treatment needed **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.

5. Fire-fighting measures

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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	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. Avoid breathing mist or vapor. 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.
	Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. 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. Avoid breathing mist or vapor. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). including any incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-3 (29 CF Components	R 1910.1000) Type	Value	Form
Quartz, Dust, Respirable Fraction (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
(0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	Form
Quartz, Dust, Respirable Fraction (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to	o Chemical Hazards		
Components	Туре	Value	Form
Quartz, Dust, Respirable Fraction (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Biological limit values	No biological exposure limits noted for	r the ingredient(s).	
Appropriate engineering controls	Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to main exposure limits have not been establi	oplicable, use process enclosur ain airborne levels below recom	es, local exhaust ventilation, mended exposure limits. If
Individual protection measures	, such as personal protective equipm	ent	
Eye/face protection	Chemical respirator with organic vapo	or cartridge and full facepiece.	
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.		
Other	Use of an impervious apron is recom	mended.	
Respiratory protection	Chemical respirator with organic vapo	or cartridge and full facepiece.	
Thermal hazards	Wear appropriate thermal protective of	clothing, when necessary.	
General hygiene considerations	Observe any medical surveillance rec measures, such as washing after han smoking. Routinely wash work clothi	dling the material and before ea	ating, drinking, and/or

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Not available.
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 applicable.
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	0.00001 hPa estimated
Vapor density	Not available.
Relative density	Not available.
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	
Density	1.66 g/cm3 estimated
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	5.38 % estimated
Specific gravity	1.66 estimated
VOC	1.15 % 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	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	May cause respiratory irritation.

Information on toxicological effects

Acute toxicity	May cause respiratory irritation.		
Product	Species	Test Results	
Brandt Rhizo Aide			
<u>Acute</u>			
Inhalation			
LC50	Guinea pig	7.9 mg/l, 1 Hours estimated	
	Mouse	35 mg/l, 1 Hours estimated	
	Rabbit	220 mg/l, 1 Hours estimated	
	Rat	158 mg/l, 1 Hours estimated	
Oral			
LD50	Mouse	45261 mg/kg estimated	

Components	Specie	S	Test Results
Potassium Chloride (CAS 7447-4	0-7)		
<u>Acute</u>			
Oral			
LD50	Guinea	ı pig	2500 mg/kg
	Mouse		383 mg/kg
	Rat		2600 mg/kg
* Estimates for product may	be based on	additional component data	not shown.
Skin corrosion/irritation	Prolonge	d skin contact may cause te	mporary irritation.
Serious eye damage/eye irritation	Direct co	ntact with eyes may cause to	emporary irritation.
Respiratory or skin sensitizatio	on		
Respiratory sensitization	Not a res	piratory sensitizer.	
Skin sensitization	This prod	luct is not expected to cause	skin sensitization.
Germ cell mutagenicity		available to indicate product ic or genotoxic.	or any components present at greater than 0.1% are
Carcinogenicity	May caus	se cancer.	
IARC Monographs. Overall	Evaluation	of Carcinogenicity	
OSHA Specifically Regulat Not regulated. US. National Toxicology Pr Quartz, Dust, Respirable	rogram (NTI	P) Report on Carcinogens	n To Be Human Carcinogen.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	May cause respiratory irritation.		
Specific target organ toxicity - repeated exposure	Not class	ified.	
Aspiration hazard	Not an as	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.		
12. Ecological informatio	n		
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 Rhizo Aide			
Aquatic			
Crustacea	EC50	Daphnia	27706.6094 mg/l, 48 hours estimated
	1050	— ••••	
Fish	LC50	Fish	84268.5156 mg/l, 96 hours estimated

Potassium Chloride (CAS 7447-40-7)

Aquatic	,		
Crustacea	EC50	Water flea (Daphnia magna)	83 mg/l, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis	s) 435 mg/l, 96 hours

* 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		
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)

Not listed.

SARA 304 Emergency release notification

Not regulated.

Hazard categories

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Not regulated.

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. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Quartz, Dust, Respirable Fraction (CAS 14808-60-7)

US. Massachusetts RTK - Substance List

Quartz, Dust, Respirable Fraction (CAS 14808-60-7)

- US. New Jersey Worker and Community Right-to-Know Act Quartz, Dust, Respirable Fraction (CAS 14808-60-7)
- US. Pennsylvania Worker and Community Right-to-Know Law

Quartz, Dust, Respirable Fraction (CAS 14808-60-7)

US. Rhode Island RTK

Not regulated.

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.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Quartz, Dust, Respirable Fraction (CAS 14808-60-7) Listed: October 1, 1988

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
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	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*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	04-24-2018
Revision date	04-24-2018
Version #	02
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: Product and Company Identification