# SAFETY DATA SHEET



## 1. Identification

Product identifier	Brandt EnzUp S DS	
Other means of identification		
Product code	52007	
Recommended use	Agricultural/ Horticultural Use	e- Fertilizer- Refer to product label
Recommended restrictions	Refer to product label.	
Manufacturer/Importer/Supplier/ Manufacturer	Distributor information	
Company name Address	Brandt Consolidated, Inc. 2935 South Koke Mill Road Springfield, IL 62711 United States	
Telephone Website E-mail	Corporate Office www.brandt.co msds@brandt.co	1-217-547-5800
Contact person Emergency phone number	EH&S / Regulatory Departme CHEMTREC (24 hours): USA, Canada, Puerto Rico Virgin Islands International Maritime	ent 1-800-424-9300 1-800-424-9300 +1 (703) 527-3887
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irrit	tation Category 2B
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	Warning	
Hazard statement	Causes eye irritation.	
Precautionary statement		
Prevention	Wash thoroughly after handli	ng.
Response	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of waste and residue	es 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	30 - < 40*
Calcium Silicate		1344-95-2	1 - < 3*
Other components below re	eportable levels		60 - < 70

## 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. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. 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 under observation. Symptoms may be delayed.
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 spray. Powder.
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. 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. Absorb in vermiculite, dry sand or earth and place into containers. 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. 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	Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in 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**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Туре	Value	Form
Calcium Silicate (CAS 1344-95-2)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. ACGIH Threshold Limit	t Values		
Components	Туре	Value	Form
Calcium Silicate (CAS 1344-95-2)	TWA	1 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to	o Chemical Hazards		
Components	Туре	Value	Form
Calcium Silicate (CAS	TWA	5 mg/m3	Respirable.
1344-95-2)		10 mg/m3	Total
US Workplace Environmer	ntal Exposure Level (WEEL) Guides	<b>J</b>	
Components		Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.
ological limit values		-	
propriate engineering	No biological exposure limits noted for the ingr Good general ventilation should be used. Vent	( )	o matched to conditions. If
	maintain airborne levels below recommended established, maintain airborne levels to an acc sufficient to maintain concentrations of dust pa (OEL), suitable respiratory protection must be operation which may generate dusts, use appr	eptable level. If engir rticulates below the 0 worn. If material is gr opriate local exhaust	neering measures are not Dccupational Exposure Limit ound, cut, or used in any
	below the recommended exposure limits. Prov	ide eyewash station.	
dividual protection measures Eye/face protection	, such as personal protective equipment Wear safety glasses with side shields (or gogg	-	
Eye/face protection	, such as personal protective equipment	-	
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Eye/face protection Skin protection	, such as personal protective equipment Wear safety glasses with side shields (or gogg	-	
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## Upper/lower flammability or explosive limits

0	pernower naminability of exp	
	Flammability limit - lower (%)	Not available.
	Flammability limit - upper (%)	Not available.
	Explosive limit - lower (%)	Not available.
	Explosive limit - upper (%)	Not available.
Va	apor pressure	0.00001 hPa estimated
Va	apor density	Not available.
Re	elative density	Not available.
So	blubility(ies)	
	Solubility (water)	Not available.
	artition coefficient -octanol/water)	Not available.
Au	uto-ignition temperature	Not available.
De	ecomposition temperature	Not available.
Vi	scosity	Not available.
Ot	her 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	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
Skin contact	Dust or powder may irritate the skin.
Eye contact	Causes eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Dusts may irritate the respiratory tract, skin and eyes.

## Information on toxicological effects

Species	Test Results
Rat	2139 mg/kg
Rat	1070 mg/m³
Rat	4401 mg/kg
	Rat

Componente	Species		Test Results
Components Calcium Silicate (CAS 1344-95-2	•		
Acute	)		
Oral			
	Rat		> 3400 mg/kg
Urea (CAS 57-13-6)			
Acute			
Oral			
LD50	Rat		8471 mg/kg
Skin corrosion/irritation	Due to partial	or complete lack of data the classification	n is not possible.
Serious eye damage/eye irritation	Causes eye ir	rritation.	
Respiratory or skin sensitization	on		
<b>Respiratory sensitization</b>	Due to partial	or complete lack of data the classification	on is not possible.
Skin sensitization	Due to partial	or complete lack of data the classification	on is not possible.
Germ cell mutagenicity	Due to partial	or complete lack of data the classification	on is not possible.
Carcinogenicity	Due to partial	or complete lack of data the classification	on is not possible.
IARC Monographs. Overall	Evaluation of C	Carcinogenicity	
Not listed. OSHA Specifically Regulat	ed Substances	(29 CFR 1910.1001-1053)	
Not listed. US. National Toxicology Pi	rogram (NTP) Re	eport on Carcinogens	
Not listed.			
Reproductive toxicity	Due to partial	or complete lack of data the classification	on is not possible.
Specific target organ toxicity - single exposure	Due to partial	or complete lack of data the classification	on is not possible.
Specific target organ toxicity - repeated exposure	Due to partial	or complete lack of data the classification	on is not possible.
Aspiration hazard	Due to partial	or complete lack of data the classification	on is not possible.
Chronic effects	Prolonged inh	nalation may be harmful.	
12. Ecological informatio	n		
_		s not classified as environmentally hazar	dous. However, this does not exclude the
Ecotoxicity			ful or damaging effect on the environment.
Product		Species	Test Results
Brandt EnzUp S DS			
Aquatic			
Crustacea	EC50	Daphnia	37189.6563 mg/l, 48 hours estimated
Components		Species	Test Results
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

mossambica)Persistence and degradabilityNo data is available on the degradability of any ingredients in the mixture.

Mozambique tilapia (Tilapia

#### **Bioaccumulative potential**

Partition coefficient	n-octanol / water (log Kow)	
Urea		-2.11
Mobility in soil	No data available.	

590 - 730 mg/l, 96 hours

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. Incinerate the material under controlled conditions in an approved incinerator. 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	D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel] 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.

#### **Toxic Substances Control Act (TSCA)**

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.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard Serious eye damage or eye irritation categories

# 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

#### **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 inv	ventory (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
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	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	01-09-2020
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.