



1. Identification

1. Identification		
Product identifier	Brandt Cal Nitrate	
Other means of identification		
Product code	32083	
Recommended use	Agricultural/ Horticultural Use- N	licronutrient Fertilizer- Refer to product label.
Recommended restrictions	Refer to product label.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name	Brandt Consolidated, Inc.	
Address	2935 South Koke Mill Road	
	Springfield, IL 62711 United States	
Telephone	Corporate Office	1-217-547-5800
Website	www.brandt.co	1-217-347-3000
E-mail	msds@brandt.co	
Contact person	EH&S / Regulatory Department	
Emergency phone number	CHEMTREC (24 hours):	
	USA, Canada, Puerto Rico	1-800-424-9300
	Virgin Islands International Maritime	1-800-424-9300 +1 (703) 527-3887
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Serious eye damage/eye irritatio	on Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
	\wedge	
Signal word	Danger	
Hazard statement	Harmful if swallowed. Causes s	erious eye damage.
Precautionary statement		
Prevention	Wash thoroughly after handling protection/face protection.	Do not eat, drink or smoke when using this product. Wear eye
Response		er/doctor if you feel unwell. Rinse mouth. If in eyes: Rinse I minutes. Remove contact lenses, if present and easy to do. all a poison center/doctor.
Storage	Store away from incompatible n	naterials.
Disposal	Dispose of contents/container ir	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	%
Calcium Nitrate		10124-37-5	50 - < 60*
Other components below r	eportable levels		40 - < 50

*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	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 immediately.
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. Permanent eye damage including blindness could result.
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	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 During fire, gases hazardous to health may be formed.

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

Move containers from fire area if you can do so without risk.

Specific 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

and precautions for firefighters

equipment/instructions

the chemical

Fire fighting

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	Do not get this material in contact with eyes. Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage,	Store in original tightly closed container. Store away from incompatible materials (see Section 10

including any incompatibilities of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).

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. Provide eyewash station.
Individual protection measure	es, such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	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

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Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Clear.
Odor	Odorless
Odor threshold	Not available.
рН	5 - 5.4
Melting point/freezing point	1040 °F (560 °C) estimated
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	1.465 g/cm3 (typical)
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	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	47 % estimated
Pounds per gallon	12.2 lbs/gal (typical)

Specific gravity 2.5 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	Hazardous polymerization does not occur.
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	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes serious eye damage.
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. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity	Harmful if swallowed.		
Product	Species	Test Results	
Brandt Cal Nitrate			
Acute			
Oral			
LD50	Rat	570 mg/kg estimated	
Components	Species	Test Results	
Calcium Nitrate (CAS 10124-37-5)		
Acute			
Oral			
LD50	Rat	302 mg/kg	
* Estimates for product may t	be based on additional component da	ta not shown.	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.		
Serious eye damage/eye irritation	Causes serious eye damage.		
Respiratory or skin sensitizatio	n		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to car	use 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 Regulate	ed Substances (29 CFR 1910.1001-	1050)	
Not regulated.			
•••	ogram (NTP) Report on Carcinoge	15	
Not listed.	-		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	Not classified.		

Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.

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.

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Product		Species	Test Results
Brandt Cal Nitrate			
Aquatic			
Fish	LC50	Fish	4528.3018 mg/l, 96 hours estimated
Components		Species	Test Results
Calcium Nitrate (CAS	10124-37-5)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	2400 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	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.

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.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Re	authorization Act of 198	36 (SARA)		
Hazard categories	Immediate Hazard - Ye Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	S		
SARA 302 Extremely hazard	dous substance			
Not listed.				
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	_
Calcium Nitrate		10124-37-5	50 - < 60	_
Other federal regulations				
Clean Air Act (CAA) Section	112 Hazardous Air Pol	lutants (HAPs) List		
Not regulated. Clean Air Act (CAA) Section	n 112(r) Accidental Relea	ase Prevention (40 Cl	FR 68.130)	
Not regulated. Safe Drinking Water Act	Not regulated.			
(SDWA)				
US state regulations				
US. California Controlled Su	ubstances. CA Departme	ent of Justice (Califo	rnia Health and Safety Co	ode Section 11100)
Not listed. US. Massachusetts RTK - S	ubstance List			
Not regulated. US. New Jersey Worker and	I Community Right-to-K	now Act		
Calcium Nitrate (CAS 10 [°] US. Pennsylvania Worker a		Know Law		
Not listed. US. Rhode Island RTK				
Calcium Nitrate (CAS 10 ⁻	124-37-5)			
US. California Proposition 6 WARNING: This product reproductive harm.		vn to the State of Calif	ornia to cause cancer and	birth defects or other
International Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	Australian Inventory of	Chemical Substances	(AICS)	Yes
Canada	Domestic Substances L	ist (DSL)		Yes
Canada	Non-Domestic Substan	ces List (NDSL)		No
China	Inventory of Existing Ch	nemical Substances in	China (IECSC)	Yes
Europe	European Inventory of Substances (EINECS)	Existing Commercial C	Chemical	Yes
Europe	European List of Notifie	d Chemical Substance	es (ELINCS)	No
Japan	Inventory of Existing an	d New Chemical Subs	stances (ENCS)	Yes
Korea	Existing Chemicals List	(ECL)		Yes
New Zealand	New Zealand Inventory			Yes
Philippines	Philippine Inventory of ((PICCS)	Chemicals and Chemic	cal Substances	Yes
United States & Puerto Rico	Toxic Substances Cont	rol Act (TSCA) Invento	ory	Yes
*A "Yes" indicates that all compor A "No" indicates that one or more country(s)	nents of this product comply	with the inventory require	ements administered by the g	overning country(s)

country(s).

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

Issue date	08-02-2016
Version #	01

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.