SAFETY DATA SHEET



1. Identification

Product identifier Brandt Noculate 13-4-13

Other means of identification

Product code 30034

Recommended use Agricultural/ Horticultural Use- Fertilizer- Refer to product label

Recommended restrictions Refer to product label.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameBrandt Consolidated, Inc.Address2935 South Koke Mill Road

Springfield, IL 62711

United States

Telephone Corporate Office 1-217-547-5800

Website www.brandt.co
E-mail www.brandt.co
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 1-800-424-9300 International Maritime +1 (703) 527-3887

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues 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	17.2
Phosphoric acid, monopotassium salt		7778-77-0	5 - < 10
Calcium Sulfate, dihydrate (Gypsum)		7778-18-9	< 0.1

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Chemical name	Common name and synonyms	CAS number	%
Quartz, Dust, Respirable Fraction	n	14808-60-7	< 0.1
Other components below reportable levels			70 - < 80

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

4. First-aid measures

Inhalation If dust from the material is inhaled, remove the affected person immediately 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 Rinse with water. Get medical attention if irritation develops and persists.

IngestionRinse mouth. Get medical attention if symptoms occur.Most importantDirect contact with eyes may cause temporary irritation.

symptoms/effects, acute and

delayed

Indication of immediate Treat symptomatically.

medical attention and special treatment needed

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

protect themse

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Specific hazards arising from the chemical Special protective equipment

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. Keep out of low areas. 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. Avoid inhalation of dust from the spilled material. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Dike far ahead of spill for later disposal. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Following product recovery, flush area with water. Sweep up or vacuum up spillage and collect in suitable container for disposal. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. 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 breathing dust. Avoid contact with eyes. Avoid prolonged exposure. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Keep container tightly closed. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

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8. Exposure controls/personal protection

Occ

Components	for Air Contaminants (29 CFR 1910.1000) Type	Value	Form
Calcium Sulfate, dihydrate (Gypsum) (CAS 7778-18-9)	PEL	5 mg/m3	Respirable fraction.
) (15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CF	R 1910.1000)		
Components	Туре	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
Calcium Sulfate, dihydrate (Gypsum) (CAS 7778-18-9)	TWA	10 mg/m3	Inhalable fraction.
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
Calcium Sulfate, dihydrate (Gypsum) (CAS 7778-18-9)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Quartz, Dust, Respirable Fraction (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
US. AIHA Workplace Enviro	onmental Exposure Level (WEEL) Guides		
Components	Туре	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.
ogical limit values	No biological exposure limits noted for the ingr	redient(s).	
ropriate engineering rols	Ventilation should be sufficient to effectively rethat may be generated during handling or ther sufficient to maintain concentrations of dust pa	mal processing. If engarticulates below the O	neering measures are no

Bio

App

con

(OEL), suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Use tight fitting goggles if dust is generated.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels Respiratory protection

exceeding the exposure limits. Dust mask.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Always observe good personal hygiene measures, such as washing after handling the material General hygiene

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective considerations

equipment to remove contaminants.

9. Physical and chemical properties

Solid. Granular. **Appearance**

Solid. **Physical state Form** Granular. Color Not available. Odor Not available. **Odor threshold** Not available. Not available. pН

Melting point/freezing point 270.86 °F (132.7 °C) estimated Initial boiling point and boiling 3072.2 °F (1689 °C) estimated

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0.00004 hPa estimated

Vapor density Not available.

Relative density 1.57 g/cm3 estimated

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Density 2.11 g/cm3 estimated

Specific gravity 2.11 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. Avoid dispersal of dust in the air (i.e., clearing dust surfaces

with compressed air).

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. Inhalation of dusts may cause respiratory irritation.

Skin contact No adverse effects due to skin contact are expected.

Eye contactDust in the eyes will cause irritation. **Ingestion**Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and

pnysical, chemical an toxicological

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

characteristics

Material name: Brandt Noculate 13-4-13 30034 Version #: 01 Issue date: 01-24-2017

Product Species Test Results Brandt Noculate 13-4-13 **Acute** Dermal LD50 Rat 7559 mg/kg estimated Inhalation LC50 Rat 4.5 mg/l, 192 hours estimated Oral LD50 Rat 6553 mg/kg estimated Components **Species Test Results** Phosphoric acid, monopotassium salt (CAS 7778-77-0) **Acute** Oral LD50 Mouse 1700 mg/kg Urea (CAS 57-13-6) **Acute** Oral 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 Dust in the eyes will cause irritation. irritation Respiratory or skin sensitization Respiratory sensitization Not available. Skin sensitization This product is not expected to cause skin sensitization. No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity 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 Quartz, Dust, Respirable Fraction (CAS 14808-60-7) 1 Carcinogenic to humans. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated. US. National Toxicology Program (NTP) Report on Carcinogens Quartz, Dust, Respirable Fraction (CAS 14808-60-7) Known To Be Human Carcinogen. This product is not expected to cause reproductive or developmental effects. Reproductive toxicity Specific target organ Not classified. toxicity - single exposure

Specific target organ toxicity - repeated

exposure

Aspiration hazard

Not available.

Prolonged inhalation may be harmful. **Chronic effects**

Not classified.

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 Noculate 13-4-13 **Aquatic** Crustacea EC50 29154.0703 mg/l, 48 hours estimated Daphnia Fish LC50 Fish 6713.1587 mg/l, 96 hours estimated

Material name: Brandt Noculate 13-4-13

Components Species Test Results

Calcium Sulfate, dihydrate (Gypsum) (CAS 7778-18-9)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) > 1970 mg/l, 96 hours

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

12000 mg/l, 96 hours

590 - 730 mg/l, 96 hours

Harlequinfish, red rasbora (Rasbora

Mozambique tilapia (Tilapia

heteromorpha)

norpna)

mossambica)

•

* 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 Not available.

Partition coefficient n-octanol / water (log Kow)

Urea -2.11

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 instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site.

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 Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

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 regulationsOne or more components are not listed on TSCA.

This product is not known to be 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 Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

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

Calcium Sulfate, dihydrate (Gypsum) (CAS 7778-18-9) Quartz, Dust, Respirable Fraction (CAS 14808-60-7)

US. New Jersey Worker and Community Right-to-Know Act

Calcium Sulfate, dihydrate (Gypsum) (CAS 7778-18-9)

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

US. Pennsylvania Worker and Community Right-to-Know Law

Calcium Sulfate, dihydrate (Gypsum) (CAS 7778-18-9)

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

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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

On inventory (yes/no)* Country(s) or region Inventory name

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

*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

01-24-2017 Issue date

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.

Material name: Brandt Noculate 13-4-13 SDS US