# SAFETY DATA SHEET



### 1. Identification

**Product identifier Brandt Converge SRN 18-3-6** 

Other means of identification

32057 Product code

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

Recommended restrictions Refer to product label. Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Brandt Consolidated, Inc. Company name **Address** 2935 South Koke Mill Road

Springfield, IL 62711

**United States** 

Telephone Corporate Office 1 217 547 5800

Website www.brandt.co E-mail msds@brandt.co

**Contact person** EH&S / Regulatory Department

**Emergency phone number** Not available.

CHEMTREC (24 hours):

USA, Canda, Puerto Rico 1-800-424-3900 Virgin Islands 1-800-424-3900 International Maritime +1 (703) 527-3887

# 2. Hazard(s) identification

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

Label elements

None. **Hazard symbol** None. Signal word

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

**Precautionary statement** 

Prevention Observe good industrial hygiene practices.

Wash hands after handling. Response

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	synonyms CAS number	
Urea		57-13-6	20 - < 30*
Potassium Nitrate		7757-79-1	3 - < 5*
EDTA manganese dipotassium		68015-77-0	< 1*
Copper diammonium EDTA		67989-88-2	0.3
Ammonia		7664-41-7	< 0.1

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Chemical name	Common name and synonyms	CAS number	%
Ammonium Hydroxide		1336-21-6	< 0.1*
Other components below re	eportable levels		60 - < 70

\*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.

**Eve contact** Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur. Direct contact with eyes may cause temporary irritation. Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Treat symptomatically.

**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

Unsuitable extinguishing media

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

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

Special protective equipment

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

and precautions for firefighters Fire fighting

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

equipment/instructions 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. 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. 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 Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (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	Туре	Value	
Ammonia (CAS 7664-41-7)	PEL	35 mg/m3	
		50 ppm	

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Components	for Air Contaminants (29 CFR 1910.1000) Type	Value	
Ammonium Hydroxide (CAS 1336-21-6)	PEL	35 mg/m3	
		50 ppm	
EDTA manganese dipotassium (CAS 68015-77-0)	Ceiling	5 mg/m3	
<b>US. ACGIH Threshold Limit</b>	Values		
Components	Туре	Value	Form
Ammonia (CAS 7664-41-7)	STEL	35 ppm	
	TWA	25 ppm	
Ammonium Hydroxide (CAS 1336-21-6)	STEL	35 ppm	
,	TWA	25 ppm	
Copper diammonium EDTA (CAS 67989-88-2)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
US. NIOSH: Pocket Guide to		M. I	Ea www
Components	Туре	Value	Form
Ammonia (CAS 7664-41-7)	STEL	27 mg/m3	
		35 ppm	
	TWA	18 mg/m3	
		25 ppm	
Ammonium Hydroxide (CAS 1336-21-6)	STEL	27 mg/m3	
		35 ppm	
	TWA	18 mg/m3	
		25 ppm	
Copper diammonium EDTA (CAS 67989-88-2)	TWA	1 mg/m3	Dust and mist.
EDTA manganese dipotassium (CAS 68015-77-0)	STEL	3 mg/m3	Fume.
3331371737	TWA	1 mg/m3	Fume.
US. AIHA Workplace Enviro	nmental Exposure Level (WEEL) Guides		
Components	Туре	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.
logical limit values	No biological exposure limits noted for the	ingredient(s).	
propriate engineering trols	Good general ventilation (typically 10 air of should be matched to conditions. If application or other engineering controls to maintain a exposure limits have not been established	able, use process enclosu airborne levels below reco	ures, local exhaust ventilation ommended exposure limits. It
vidual protection measures.	such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or	goggles).	
Skin protection			
Hand protection	Wear appropriate chemical resistant glove supplier.	es. Suitable gloves can be	recommended by the glove
Other	Wear suitable protective clothing.		
Respiratory protection	In case of insufficient ventilation, wear sui	table respiratory equipme	nt.
Thermal hazards	Wear appropriate thermal protective clothi	ing, when necessary.	
neral hygiene siderations	Always observe good personal hygiene m and before eating, drinking, and/or smokin equipment to remove contaminants.		

## 9. Physical and chemical properties

Appearance Liquid.
Physical state Liquid.
Form Liquid.
Color Light green
Odor Slight. Ammonia
Odor threshold Not available.

**pH** 10

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

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 Not available.

Vapor density Not available.

Relative density 1.25 g/cm3 (typical)

Solubility(ies)

Not available.

Partition coefficient

Solubility (water)

Not available.

(n-octanol/water)

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

Other information

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Pounds per gallon 10.4 lb/gal (typical)

### 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

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.

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Direct contact with eyes may cause temporary irritation.

## Information on toxicological effects

### **Acute toxicity**

Product	Species	Test Results
Brandt Converge SRN 18-3-6	6	
<u>Acute</u>		
Dermal		
LD50	Rabbit	53722 mg/kg estimated
Oral		
LD50	Rabbit	9164 mg/kg estimated
	Rat	32290 mg/kg estimated
Components	Species	Test Results
Ammonia (CAS 7664-41-7)		
<u>Acute</u>		
Inhalation	2.1	0.740
LC50	Cat	0.746 mg/l, 1 Hours
	Mouse	7.105 mg/l, 10 Minutes
		3.36 mg/l, 1 Hours
		3.31 mg/l, 2 Hours
	Rabbit	7.05 mg/l, 1 Hours
	Rat	4000 ppm, 1 Hours
		7.6 mg/l, 2 Hours
		5.1 mg/l, 1 Hours
Oral		
LD50	Rat	350 mg/kg
Ammonium Hydroxide (CAS	1336-21-6)	
<u>Acute</u>		
Oral		
LD50	Rat	350 mg/kg
Potassium Nitrate (CAS 7757	7-79-1)	
<u>Acute</u>		
Oral	Dabbit	4400 mm/lim
LD50	Rabbit	1166 mg/kg
Urea (CAS 57-13-6)		
<u>Acute</u> Oral		
LD50	Rat	8471 mg/kg
LDOO	Sheep	28500 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

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 any components present at greater than 0.1% are

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

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#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

# US. National Toxicology Program (NTP) Report on Carcinogens

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

Not classified.

exposure

Aspiration hazard Not an aspiration hazard.

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

# 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 Converge SRN 1	8-3-6		
Aquatic			
Crustacea	EC50	Daphnia	19139.3125 mg/l, 48 hours estimated
Fish	LC50	Fish	14414.8242 mg/l, 96 hours estimated
Components		Species	Test Results
Ammonia (CAS 7664-41	-7)		
Aquatic			
Fish	LC50	Chinook salmon (Oncorhynchus tshawytscha)	0.43 - 0.47 mg/l, 96 hours
Ammonium Hydroxide (C	CAS 1336-21-6)		
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	15 mg/l, 96 hours
Potassium Nitrate (CAS	7757-79-1)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	1200 mg/l, 96 hours
Acute			
Fish	LC50	Fish	1378 - 3000 mg/l
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
		Mozambique tilapia (Tilapia mossambica)	590 - 730 mg/l, 96 hours

<sup>\*</sup> 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** 

Partition coefficient n-octanol / water (log Kow)

Urea -2.11

Mobility in soil No data available.

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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.

**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 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)** 

Ammonia (CAS 7664-41-7)

Ammonium Hydroxide (CAS 1336-21-6)

Copper diammonium EDTA (CAS 67989-88-2)

EDTA manganese dipotassium (CAS 68015-77-0)

Listed.

Listed.

Listed.

SARA 304 Emergency release notification

Ammonia (CAS 7664-41-7) 100 LBS 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

Chemical name CAS number Reportable Threshold Threshold Threshold quantity planning quantity planning quantity, planning quantity, lower value upper value

Ammonia 7664-41-7 100 500 lbs

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

 Chemical name
 CAS number
 % by wt.

 Potassium Nitrate
 7757-79-1
 3 - < 5</td>

#### Other federal regulations

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

EDTA manganese dipotassium (CAS 68015-77-0)

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Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Ammonia (CAS 7664-41-7)

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(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))

Ammonia (CAS 7664-41-7)

### **US. Massachusetts RTK - Substance List**

Ammonia (CAS 7664-41-7)

Ammonium Hydroxide (CAS 1336-21-6) Potassium Nitrate (CAS 7757-79-1)

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

Ammonia (CAS 7664-41-7)

Ammonium Hydroxide (CAS 1336-21-6) Copper diammonium EDTA (CAS 67989-88-2) EDTA manganese dipotassium (CAS 68015-77-0)

Potassium Nitrate (CAS 7757-79-1)

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

Ammonia (CAS 7664-41-7)

Ammonium Hydroxide (CAS 1336-21-6) Potassium Nitrate (CAS 7757-79-1)

#### **US. Rhode Island RTK**

Ammonia (CAS 7664-41-7)

Ammonium Hydroxide (CAS 1336-21-6)

Copper diammonium EDTA (CAS 67989-88-2)

EDTA manganese dipotassium (CAS 68015-77-0)

Potassium Nitrate (CAS 7757-79-1)

#### **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.

#### 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)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
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	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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

 Issue date
 03-17-2016

 Revision date
 02-20-2018

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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).

#### **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** 

This document has undergone significant changes and should be reviewed in its entirety.

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