BRAND

SAFETY DATA SHEET

1. Identification

Uptake Technical Concentrate Product identifier

Other means of identification

Product code

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

Refer to product label. Recommended restrictions 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 www.brandt.co

1-217-547-5800

Website 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 1-800-424-9300

Virgin Islands

International Maritime

+1 (703) 527-3887

2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Acute toxicity, oral

Category 4

Skin corrosion/irritation

Category 1A

Serious eye damage/eye irritation

Category 1

Environmental hazards

OSHA defined hazards

Not classified. Not classified.

Label elements



Signal word

Danger

Hazard statement

Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage.

Precautionary statement

Prevention

Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison

center/doctor. Wash contaminated clothing before reuse.

Storage

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	%
Humic Acid Ore / Leonardite		129521-66-0	20 - < 30*
Potassium Hydroxide (Caustic Potash)		1310-58-3	5 - < 10*
Propylene glycol		57-55-6	< 0.1*
Other components below reportable le	evels	•	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 Skin contact Move to fresh air. Call a physician if symptoms develop or persist.

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Eye contact

Ingestion

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately. Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. 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. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. 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 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.

Specific hazards arising from the chemical

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.

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. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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

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.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. 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, including any incompatibilities

Store locked up. Store in original tightly closed container.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH	Threshold	Limit '	Values
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Components	Type	Value	
Potassium Hydroxide (Caustic Potash) (CAS 1310-58-3)	Ceiling	2 mg/m3	

US NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
Potassium Hydroxide	Ceiling	2 mg/m3	
(Caustic Potash) (CAS 1310-58-3)	a a company and a company	and the second s	

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Туре	Value	Form	
Propylene glycol (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.	_

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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eve/face protection	Wear safety glasses with side shields (or goggles) and a face shield.
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Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear appropriate chemical resistant 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

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Black.
Odor	Not available.

Odor threshold Not available.

pH 10 - 13

Melting point/freezing point
Initial boiling point and boiling

716 °F (380 °C) estimated 2420.6 °F (1327 °C) estimated

range

Not available.

Flash point

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Explosive limit - lower (%)

Not available.

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

0.00001 hPa estimated

Vapor density

Not available.

Relative density

1.13 g/cm3

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient

Not available.

(n-octanol/water)

Not available.

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Viscosity Other information

Explosive properties

Not explosive.

Oxidizing properties

Not oxidizing.

Percent volatile

61,82 % estimated

Pounds per gallon

9,43 lbs/gal

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. Hazardous polymerization does not occur.

Possibility of hazardous

reactions

Conditions to avoid

Contact with incompatible materials.

Incompatible materials

Acids. Maleic anhydride.

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

Causes severe skin burns. Causes serious eye damage.

Eye contact Ingestion

Causes digestive tract burns. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

Acute toxicity

Product

Harmful if swallowed.

Uptake Technical Concentrate Acute

Dermal

LD50 Rabbit

Test Results

Inhalation

LD50

Rabbit

Species

3.523e+007 mg/l

2.222e+008 mg/kg

	Species	Test Results
Oral	D-4	1220 malka
LD50	Rat	1339 mg/kg
omponents	Species	Test Results
ropylene glycol (CAS 57-55-6)		
<u>Acute</u>		
Dermal	Rabbit	2000 mg/kg
LD50	Rabbit	2000 mg/kg
Inhalation LD50	Rabbit	317 mg/l
	Rabbit	orr mg/
Oral LD50	Rat	> 20000 mg/kg
LD50	Rai	> 20000 Hig/kg
* Estimates for product may b	pe based on additional component data not shown.	
kin corrosion/irritation	Causes severe skin burns and eye damage.	
erious eye damage/eye ritation	Causes serious eye damage.	
espiratory_or_skin_sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitiza	ation.
erm cell mutagenicity	No data available to indicate product or any compo mutagenic or genotoxic.	nents present at greater than 0.1% are
arcinogenicity	This product is not considered to be a carcinogen by	y IARC, ACGIH, NTP, or OSHA.
Not listed.	Evaluation of Carcinogenicity ed Substances (29 CFR 1910.1001-1052)	
• • •		
Not regulated.	ogram (NTP) Report on Carcinogens	
Not regulated. US. National Toxicology Pr Not listed.	rogram (NTP) Report on Carcinogens This product is not expected to cause reproductive	or developmental effects.
Not regulated. US. National Toxicology Pr Not listed. Reproductive toxicity Specific target organ toxicity -		or developmental effects.
Not regulated. US. National Toxicology Pr Not listed. Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity -	This product is not expected to cause reproductive	or developmental effects.
Not regulated. US. National Toxicology Pr Not listed. Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - epeated exposure	This product is not expected to cause reproductive Not classified.	or developmental effects.
Not regulated. US. National Toxicology Pr Not listed. Reproductive toxicity specific target organ toxicity ingle exposure specific target organ toxicity - epeated exposure aspiration hazard	This product is not expected to cause reproductive Not classified. Not classified.	or developmental effects.
Not regulated. US. National Toxicology Pr Not listed. Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - epeated exposure Aspiration hazard Chronic effects	This product is not expected to cause reproductive Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful.	or developmental effects.
Not regulated. US. National Toxicology Pr Not listed. Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - epeated exposure Aspiration hazard Chronic effects 12. Ecological informatio	This product is not expected to cause reproductive Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful.	
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Not regulated. US. National Toxicology Pr Not listed. Reproductive toxicity Specific target organ toxicity - ingle exposure Specific target organ toxicity - epeated exposure Aspiration hazard Chronic effects I2. Ecological informatio	This product is not expected to cause reproductive Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful. The product is not classified as environmentally hapossibility that large or frequent spills can have a harmful.	zardous. However, this does not exclude the
Not regulated. US. National Toxicology Pr Not listed. Reproductive toxicity Specific target organ toxicity	This product is not expected to cause reproductive Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful. The product is not classified as environmentally hat possibility that large or frequent spills can have a harmful.	zardous. However, this does not exclude the earmful or damaging effect on the environmen
Not regulated. US. National Toxicology Pr Not listed. Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - sepeated exposure Aspiration hazard Chronic effects 12. Ecological informatio Ecotoxicity Product Uptake Technical Concentra	This product is not expected to cause reproductive Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful. The product is not classified as environmentally hat possibility that large or frequent spills can have a harmful.	zardous. However, this does not exclude the earmful or damaging effect on the environmen
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Components Species Test Results

Fish LC50

Fathead minnow (Pimephales promelas) 29485 - 39339 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

Partition coefficient n-octanol / water (log Kow)

Propylene glycol

-0.92

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.

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Potassium Hydroxide (Caustic Potash) (CAS 1310-58-3) Listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

Classified hazard

Acute toxicity (any route of exposure)

categories

Skin corrosion or irritation Serious eye damage or eye irritation

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 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
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 02-14-2019

Version # 0

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: Alternate Trade Names

Identification: Recommended restrictions

Hazard(s) identification: Supplemental information Physical & Chemical Properties: Multiple Properties

Physical and chemical properties: Color Toxicological Information: Toxicological Data Regulatory information: California Proposition 65

Material name: Uptake Technical Concentrate 42010 Version #: 01 Issue date: 02-14-2019