# SAFETY DATA SHEET

# 1. Identification

**Product identifier Grigg Displace** 

Other means of identification

Product code 32525

Recommended use Turf- fertilizer

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

Manufacturer

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

Springfield, IL 62711

**United States** 

Corporate Office 1-217-547-5800 **Telephone** 

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

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

**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

Not available. **Supplier** 

### 2. Hazard identification

**Physical hazards** Not classified.

**Health hazards** Acute toxicity, oral Category 4

> Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1

Not classified. **Environmental hazards** 

Label elements



Signal word Danger

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

**Precautionary statement** 

Prevention Do not breathe dust or mists. Wash thoroughly after handling. Do not eat, drink or smoke when

using this product. Wear protective gloves/protective clothing/eye protection/face protection.

Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Response

Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water

for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up. Storage

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information 3.52% of the mixture consists of component(s) of unknown acute dermal toxicity. 70.51% of the

mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

Other hazards None known.

### 3. Composition/information on ingredients

#### **Mixtures**

Ingestion

Chemical name	Common name and synonyms	CAS number	%
Nitric Acid Ammonium Calcium Salt		15245-12-2	60 - < 70
Urea		57-13-6	3 - < 5
Other components below reportable levels			20 - < 30

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation

Skin contact 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.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

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

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

Fire fighting

equipment/instructions

Specific methods General fire hazards 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.

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.

Use standard firefighting procedures and consider the hazards of other involved materials.

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 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 Should not be released into the environment.

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** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling Do not get in eyes, on skin, or on clothing. 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, including any incompatibilities Store locked up. Store in tightly closed container. Store away from incompatible materials (see

Section 10 of the SDS).

### 8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

**Biological limit values** 

Appropriate engineering

controls

No biological exposure limits noted for the ingredient(s).

Good general ventilation 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

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

Skin protection

Wear appropriate chemical resistant gloves. Hand protection Other Wear appropriate chemical resistant clothing.

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection

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** 

Liquid. **Physical state Form** Liquid.

Color Not available. Not available. Odor Not available. **Odor threshold** 

0.6

Melting point/freezing point Not available.

Initial boiling point and boiling

range

211.95 °F (99.97 °C) estimated

Flash point Not available. **Evaporation rate** Not available. Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits Not available. Explosive limit - lower (%)

Explosive limit - upper (%) Not available.

-0.01 hPa estimated Vapor pressure

Not available. Vapor density

1.486 g/cm3 (typical) Relative density

Solubility(ies)

Solubility (water) Not available. Not available. Partition coefficient

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

Explosive properties

Oxidizing properties

Percent volatile

Pounds per gallon

VOC

Not explosive.

Not explosive.

Not explosive.

12.4 b/gal (typical)

# 10. Stability and reactivity

Reactivity Reacts violently with strong alkaline substances. This product may react with reducing agents.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

resting of flazardou

reactions

**Conditions to avoid**Contact with incompatible materials. Do not mix with other chemicals.

Incompatible materials Bases. Reducing agents.

**Hazardous decomposition** 

products

**Product** 

Components

No hazardous decomposition products are known.

# 11. Toxicological information

# Information on likely routes of exposure

**Inhalation** May cause irritation to the respiratory system.

Skin contact Causes severe skin burns.

Eye contact Causes serious eye damage.

**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

**Test Results** 

**Test Results** 

blindness could result.

**Species** 

**Species** 

#### Information on toxicological effects

Acute toxicity Harmful if swallowed.

Grigg Displace		
<u>Acute</u>		
Dermal		
LD50	Rat	2986 mg/kg
Oral		
LD50	Rat	744 mg/kg

Nitric Acid Ammonium Calcium Salt (CAS 15245-12-2)

<u>Acute</u> Dermal

LD50 Rat > 2000 mg/kg

Oral

LD50 Rat 500 mg/kg

Urea (CAS 57-13-6)

<u>Acute</u> Oral

LD50 Rat 8471 mg/kg

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

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.

Carcinogenicity Not available.

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

Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon **Ecotoxicity** 

exposure to aquatic organisms and aquatic systems.

Product		Species	Test Results
Grigg Displace			
Aquatic			
Crustacea	EC50	Daphnia	142457.3906 mg/l, 48 hours
Fish	LC50	Fish	222585.2344 mg/l, 96 hours
Acute			
Crustacea	EC50	Daphnia	111079.5469 mg/l, 48 hours estimated
Fish	LC50	Fish	272632.5625 mg/l, 96 hours estimated
Components		Species	Test Results
Urea (CAS 57-13-6)			
Aquatic			
Acute			
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

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

-2.11 Urea

No data available. Mobility in soil

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. Do not allow

this material to drain into sewers/water supplies. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

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

**TDG** 

UN1760 **UN** number

Corrosive liquids, n.o.s. (Nitric Acid Ammonium Calcium Salt) **UN proper shipping name** 

Transport hazard class(es)

Class 8 **Subsidiary hazard** Ш **Packing group Environmental hazards** No

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IATA** 

**UN number** UN1760

**UN** proper shipping name Corrosive liquids, n.o.s. (Nitric Acid Ammonium Calcium Salt)

Transport hazard class(es)

8 Class **Subsidiary hazard** 8 Label(s) Ш **Packing group** No. **Environmental hazards** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN** number UN1760

**UN proper shipping name** Corrosive liquids, n.o.s. (Nitric Acid Ammonium Calcium Salt)

Not established.

Transport hazard class(es)

8 Subsidiary hazard 8 Label(s) Ш Packing group **Environmental hazards** 

> Marine pollutant No.

**EmS** Not assigned.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

Annex II of MARPOL 73/78 and the IBC Code

IATA; IMDG; TDG



#### 15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

**Controlled Drugs and Substances Act** 

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Not regulated.

International regulations

#### **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Not applicable.

#### **Kyoto protocol**

Not applicable.

#### **Montreal Protocol**

Not applicable.

#### **Basel Convention**

Not applicable.

#### **International Inventories**

Country(s) or region

Country(s) or region	inventory name	On inventory (yes/no)
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
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)	Yes
New Zealand	New Zealand Inventory	Yes

(PICCS)

Inventory name

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

Philippine Inventory of Chemicals and Chemical Substances

### 16. Other information

**Philippines** 

02-08-2018 Issue date **Revision date** 08-28-2024

Version # 06

Disclaimer

Brandt Consolidated, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. 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.

Material name: Grigg Displace SDS CANADA

On inventory (yes/ne)\*

Nο

<sup>\*</sup>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).