# BRANDT

# SAFETY DATA SHEET

#### 1. Identification

Product identifier Commander 410 Pre-Mix

Other means of identification

Product code 20014

Recommended use Agricultural/ Horticultural Use- Micronutrient 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 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 Skin corrosion/irritation Category 2

Serious eye damage/eye irritation

Sensitization, skin

Germ cell mutagenicity

Reproductive toxicity

Specific target organ toxicity, repeated

Category 1

Category 2

Category 2

Category 2

Category 2

exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment, Category 1

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes serious eye damage. Suspected of damaging fertility or the unborn child. May cause

damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to

aquatic life with long lasting effects.

Precautionary statement

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe mist or vapor. Avoid release to the environment. Wear protective

gloves/protective clothing/eye protection/face protection.

**Response** 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. Collect spillage.

Material name: Commander 410 Pre-Mix 20014 Version #: 01 Issue date: 06-08-2016

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	%
Manganese Sulfate, monohydrate		10034-96-5	5 - < 10*
Disodium Octaborate Tetrahydrate		12008-41-2	3 - < 5*
Acetic Acid		64-19-7	1 - < 3*
Cupric Sulfate, pentahydrate		7758-99-8	1 - < 3*
Urea		57-13-6	1 - < 3*
Zinc Sulfate		7733-02-0	1 - < 3*
Propylene glycol		57-55-6	< 0.1*
Other components below reportable I	levels		70 - < 80

<sup>\*</sup>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. Get medical attention immediately. Continue rinsing.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

General information

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Severe eye irritation. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. 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-co and precautions for firefighters

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

Fire fighting equipment/instructions

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

**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. 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 contained. For personal protection, see section 8 of the SDS.

# Methods and materials for containment and cleaning up

Large Spills: This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. 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 release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not get this material in contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Pregnant or breastfeeding women must not handle this product. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

#### Occupational exposure limits

Components	Туре	Value	
Acetic Acid (CAS 64-19-7)	PEL	25 mg/m3	
		10 ppm	
Manganese Sulfate, monohydrate (CAS 10034-96-5)	Ceiling	5 mg/m3	
US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	Form
Acetic Acid (CAS 64-19-7)	STEL	15 ppm	
	TWA	10 ppm	
Cupric Sulfate, pentahydrate (CAS 7758-99-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Disodium Octaborate Tetrahydrate (CAS 12008-41-2)	STEL	6 mg/m3	Inhalable fraction.
,	TWA	2 mg/m3	Inhalable fraction.
Manganese Sulfate, monohydrate (CAS 10034-96-5)	TWA	0.1 mg/m3	Inhalable fraction.
,		0.02 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Chen	nical Hazards		
Components	Туре	Value	Form
Acetic Acid (CAS 64-19-7)	STEL	37 mg/m3	
		15 ppm	
	TWA	25 mg/m3	
		10 ppm	
Cupric Sulfate, pentahydrate (CAS 7758-99-8)	TWA	1 mg/m3	Dust and mist.
Manganese Sulfate, monohydrate (CAS 10034-96-5)	STEL	3 mg/m3	Fume.

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Туре	Value	Form		
	TWA	1 mg/m3	Fume.		
US. AIHA Workplace Environmental Exposure Level (WEEL) Guides Components Type Value Form					
Propylene glycol (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.		
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.		

**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 measures, such as personal protective equipment

**Eye/face protection** Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing. Use of an impervious apron is recommended.

**Respiratory protection** Chemical respirator with organic vapor cartridge and full facepiece.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. 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 Liquid.
Form Liquid.
Color Brown.

Odor Burnt caramel
Odor threshold Not available.

**pH** 2 - 4

Melting point/freezing point Not available.

Initial boiling point and boiling

range

1562 °F (850 °C) estimated

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 0.00001 hPa estimated

Vapor density Not available.

Relative density 1.2 g/cm3 (typical)

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

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

Other information

Percent volatile

Pounds per gallon

Specific gravity

2.79 g/cm3 estimated

64.25 % estimated

10.2 lb/gal (typical)

2.79 estimated

VOC

0.94 % 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 Hazardous polymerization does not occur.

reactions

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. May cause damage to organs through prolonged or

repeated exposure by inhalation.

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

**Eye contact** Causes serious eye damage.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and

toxicological characteristics

**Acute toxicity** 

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Severe eye

irritation. Permanent eye damage including blindness could result.

### Information on toxicological effects

Components	Species	Test Results
Acetic Acid (CAS 64-19-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	1060 mg/kg
Inhalation		
LC50	Guinea pig	5000 ppm, 1 Hours
	Mouse	5620 ppm, 1 Hours
	Rat	11.4 mg/l, 4 Hours
Oral		
LD50	Mouse	4960 mg/kg
	Rabbit	1200 mg/kg
	Rat	3.31 g/kg
Cupric Sulfate, pentahydra	te (CAS 7758-99-8)	
Acute		
Oral		
LD100	Mouse	50 mg/kg
LD50	Rat	960 mg/kg

Components **Species Test Results** 

Disodium Octaborate Tetrahydrate (CAS 12008-41-2)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Guinea pig 5300 mg/kg

Rat 2550 mg/kg

2 g/kg

Manganese Sulfate, monohydrate (CAS 10034-96-5)

**Acute** Oral

I D100 Mouse 305 mg/kg

Propylene glycol (CAS 57-55-6)

**Acute** Oral

LD50 Dog 19 g/kg

> Guinea pig 18.4 g/kg Mouse 23.9 g/kg Rabbit 18 g/kg Rat 30 g/kg

Urea (CAS 57-13-6)

**Acute** 

Oral

LD50 Rat 8471 mg/kg

> Sheep 28500 mg/kg

Zinc Sulfate (CAS 7733-02-0)

**Acute** 

**Dermal** 

LD50 Rat > 2000 mg/kg

Oral

LD50 Rat 623 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not available.

This product is not expected to cause skin sensitization. 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 Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ

toxicity - single exposure

Not classified.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** 

Not available.

Prolonged inhalation may be harmful. May cause damage to organs through prolonged or **Chronic effects** 

repeated exposure.

# 12. Ecological information

Ecotoxicity	Very toxic to aquatic life with long lasting effects.
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Product		Species	Test Results
Commander 410 Pre-M	ix		
Aquatic			
Crustacea	EC50	Daphnia	244.3471 mg/l, 48 hours estimated
Fish	LC50	Fish	25.7007 mg/l, 96 hours estimated
Components		Species	Test Results
Acetic Acid (CAS 64-19	-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	65 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	75 mg/l, 96 hours
Cupric Sulfate, pentahy	drate (CAS 7758-	99-8)	
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.0058 - 0.0073 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	0.66 - 1.15 mg/l, 96 hours
Disodium Octaborate Te	etrahydrate (CAS	12008-41-2)	
Aquatic			
<i>Acute</i> Crustacea	LC50	Danhnia magna	610 mg/l
		Daphnia magna	619 mg/l
Fish	LC50	Pimephales promelas	370 mg/l
Manganese Sulfate, mo	nonydrate (CAS 1	10034-96-5)	
<b>Aquatic</b> Crustacea	EC50	Water flea (Daphnia obtusa)	30.8 - 44.1 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	•
1 1311	L030	r attlead milliow (r intepriales prometas)	29.7 - 52.7 mg/l, 192 hours
Dranylana alyaal (CAS)	7 FF 6\		29.7 - 32.7 mg/l, 192 hours
Propylene glycol (CAS <b>Aquatic</b>	57-55-6)		
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	
Urea (CAS 57-13-6)	2000	Tauticaa miiniow (Filmophales prometas)	25400 05005 mg/l, 50 mours
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
Zinc Sulfate (CAS 7733	-02-0)		
Aquatic	,		
Algae	LC50	Green algae (Chlorella vulgaris)	5 mg/l, 24 hours
Crustacea	EC50	Amphipod (Crangonyx pseudogracilis)	15.1 - 24.5 mg/l, 96 hours
		Rotifer (Philodina acuticornis)	0.5 mg/l, 48 hours

Components Species Test Results

Fish LC50 Fathead minnow (Pimephales promelas) 10.62 - 11.3 mg/l, 5 days

0.168 - 0.25 mg/l, 96 hours

Fish (Lepidocephalichthyes guntea) 76 - 118.8 mg/l, 24 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

Acetic Acid -0.17
Propylene glycol -0.92
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 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. Do not contaminate ponds, waterways or ditches

with chemical or used container. 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** 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

UN number UN3082

**UN proper shipping name** Environmentally hazardous substances, liquid, n.o.s. (Cupric Sulfate, pentahydrate RQ = 392

LBS)

Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9
Packing group III

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

**Special provisions** 8, 146, 335, IB3, T4, TP1, TP29

Packaging exceptions 155
Packaging non bulk 203
Packaging bulk 241

Not DOT regulated in domestic (USA ground) transportation in package sizes less than 392 lbs (38 gallons); 178 kg (144 liters).

The DOT transportation information below is for shipments with package sizes equal to or exceeding this value.

DOT Shipping Notes: 40 CFR 172.504(f)(9) For Class 9, a CLASS 9 placard is not required for domestic (USA ground) transportation, however shipments with packaging exceeding the Reportable Quantity (RQ) or bulk packaging must be marked with the appropriate identification number on a CLASS 9 placard, an orange panel, or a white square-on-point display configuration as required. Since the Class 9 placard is not required (although it may be used) the hazardous material endorsement is also not required on a Commercial Drivers License.

**IATA** 

UN number UN3082

**UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Cupric Sulfate, pentahydrate)

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

No. **Environmental hazards ERG Code** 9L

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

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN3082 **UN** number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cupric Sulfate, UN proper shipping name

pentahydrate)

Transport hazard class(es)

9 Class Subsidiary risk Ш Packing group **Environmental hazards** 

Marine pollutant No. F-A, S-F **EmS** 

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

DOT: IATA: IMDG



Not DOT regulated in domestic (USA ground) transportation in package sizes less than 392 lbs (38 **General information** 

gallons); 178 kg (144 liters). The DOT transportation information below is for shipments with

package sizes equal to or exceeding this value.

15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US federal regulations** 

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)** 

Acetic Acid (CAS 64-19-7) Listed. Manganese Sulfate, monohydrate (CAS 10034-96-5) Listed. Zinc Sulfate (CAS 7733-02-0) 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)

Immediate Hazard - Yes **Hazard categories** 

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

Material name: Commander 410 Pre-Mix 20014 Version #: 01 Issue date: 06-08-2016

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Manganese Sulfate, monohydrate	10034-96-5	5 - < 10	
Cupric Sulfate, pentahydrate	7758-99-8	1 - < 3	
Zinc Sulfate	7733-02-0	1 - < 3	

#### Other federal regulations

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

Manganese Sulfate, monohydrate (CAS 10034-96-5)

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

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

#### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Acetic Acid (CAS 64-19-7) High priority

#### **US state regulations**

# US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

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

Acetic Acid (CAS 64-19-7)

Cupric Sulfate, pentahydrate (CAS 7758-99-8)

Zinc Sulfate (CAS 7733-02-0)

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

Acetic Acid (CAS 64-19-7)

Cupric Sulfate, pentahydrate (CAS 7758-99-8)

Disodium Octaborate Tetrahydrate (CAS 12008-41-2)

Manganese Sulfate, monohydrate (CAS 10034-96-5)

Propylene glycol (CAS 57-55-6) Zinc Sulfate (CAS 7733-02-0)

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

Acetic Acid (CAS 64-19-7)

Cupric Sulfate, pentahydrate (CAS 7758-99-8)

Propylene glycol (CAS 57-55-6)

Zinc Sulfate (CAS 7733-02-0)

#### US. Rhode Island RTK

Acetic Acid (CAS 64-19-7)

Manganese Sulfate, monohydrate (CAS 10034-96-5)

Zinc Sulfate (CAS 7733-02-0)

## **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.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
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)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

20014 Version #: 01 Issue date: 06-08-2016

SDS US

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

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

06-08-2016 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: Commander 410 Pre-Mix